

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-1 for SN 1 to 10

1. Write a program to calculate $V = u+at$
2. Write a program to calculate $S = ut+1/2at^2$
3. Write a program to calculate $Sum = 1 + 2 + 3 + \dots + n$
4. Write a program to print Fibonacci series of given range.
5. Write a program to find maximum of three numbers.
6. Write a program to find second largest of n numbers without using array.
7. Write a program to generate first n prime numbers.
8. Write a program to convert decimal number to binary number.
9. Write a program to reverse an array of n elements and store in the same array.
10. Write a program to find average of n elements of floating point array.
11. Write a program to find maximum element of a given two dimensional matrix of order $m \times n$.
12. Write a program to transpose of a given two dimensional matrix of order $m \times n$.
13. Write a program to sort n integers using Bubble Sort in ascending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
* * * * *  
* * * * *  
* * * *  
* * *  
* *  
*  
*
```

16. Write a program to print following pattern-
1
12
123
1234
12345
17. Write a program to convert the string from lower case to upper case.
18. Write a program to count the different types of characters in given string.
19. Write a program convert Decimal to Roman Number.
20. Write a program to find factorial of a number using recursion.
21. Write a program to draw a Circle.
22. Write a program to read all the text from a text file.
23. Write a program to find sum of n numbers using command line argument.
24. Write a program to print calendar of the given month.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-2 for SN 11 to 20

1. Write a program to calculate $T = 2*a + \sqrt{b} + 9c$
2. Write a program to calculate $H = \sqrt{b^2 + p^2}$
3. Write a program to calculate $Sum = 1 + 3 + 5 + \dots + n$
4. Write a program to find factorial of a number using recursion.
5. Write a program to reverse any number.
6. Write a program to find out sum of digits of given number.
7. Write a program to check whether given number is prime or not.
8. Write a program to convert Decimal number to Octal number.
9. Write a program to find sum of exponential series.
10. Write a program to print unique numbers of an array of any n integers.
11. Write a program to inverse of a given 2-D matrix of order mXn.
12. Write a program to find addition of a given two 2-D matrix of order mXn.
13. Write a program to sort n integers using Selection Sort in ascending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
*
* *
* * *
* * * *
* * * * *
* * * * * *
```

16. Write a program to print following pattern-

```
11111
1111
111
11
1
```

17. Write a program to print the reverse of any given string.
18. Write a program for concatenation two string
19. Write a program to exchange of two numbers using function.
20. Write a program to find factorial of a number using recursion.
21. WAP to draw an arc on a computer screen
22. Write a program to write a text in to a text file.
23. Write a program to find average of n numbers using command line argument.
24. Write a program to check whether given year is leap year or not.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-3 for SN 21 to 30

1. Write a program to calculate $\Delta = 1/2 \times b \times h$
2. Write a program to calculate area of a circle.
3. Write a program to calculate $\text{Sum} = 1 + 2 + 4 + 6 + \dots + n$
4. Write a program print integer number into words. i.e. 75 should print seventy five.
5. Write a program to add two numbers without using addition operator.
6. Write a program to swap two numbers using and without using third variable.
7. Write a program to find sum of first n prime numbers.
8. Write a program to convert Decimal number to hexadecimal number
9. Write a program to print unique numbers of an array of any n integers.
10. Write a program to print duplicate numbers of an array of any n integers.
11. Write a program to find subtraction of a given two 2-D matrix of order mXn.
12. Write a program to check unit matrix of a given 2-D matrix of order mXn.
13. Write a program to sort n integers using Linear Sort in ascending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
      *
     * * *
    * * * * *
   * * * * * *
```

16. Write a program to print following pattern-

```
1
101
1001
10001
100001
```

17. Write a program to search substring in given string.
18. Write a program to delete the all vowels from given string.
19. Write a program covert Decimal to Roman Number.
20. Write a program to find factorial of a number using recursion.
21. WAP to display and draw a bar on a computer screen
22. Write a program to print the number of vowels in a text file.
23. Write a program to max of n numbers using command line argument.
24. Write a program to find age of given person on current date.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-4 for SN 31 to 40

1. Write a program to calculate Perimeter of a circle
2. Write a program to calculate Area of a sphere
3. Write a program to calculate Sum = $1 + 1/1! + 2/2! + 3/3! + \dots + n/n!$
4. Write a program print integer number into words. i.e. 75 should print seventy five.
5. Write a program to generate n random numbers
6. Write a program to check given number is palindrome or not.
7. Write a program to check whether sum of digits of given number is prime or not.
8. Write a program to convert Binary number to decimal number
9. Write a program to find sum of unique numbers of an array of any n integers.
10. Write a program to remove duplicate numbers of an array of any n integers.
11. Write a program to check unit matrix of a given 2-D matrix of order mXn.
12. Write a program to find sum of diagonal elements of a given 2-D matrix of order mXn.
13. Write a program to sort n integers using Insertion Sort in ascending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
* * * * *
 * * * *
  * * *
   *

```

16. Write a program to print following pattern-

12345
1234
123
12
1
17. Write a program to check whether given string is palindrome or not.
18. Write a program to convert case of first character of string in given paragraph of text.
19. Write a program to find location of given word in a sentence.
20. Write a program to find factorial of a number using recursion.
21. WAP to draw a polygon on a computer screen
22. WAP to count a particular word in a text file.
23. Write a program to max of n numbers using command line argument.
24. Write a program to print calendar of the given month.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-5 for SN 41 to 50

1. Write a program to calculate Surface area of a sphere
2. Write a program to calculate Volume of a rectangle
3. Write a program to calculate $\text{Sum} = X^0/0! + X^2/2! + X^4/4! + X^6/6! + \dots$ upto n terms
4. Write a program to merge two unsorted arrays into one sorted array.
5. Write a program to find GCD of a two numbers.
6. Write a program to find minimum of three numbers.
7. Write a program to count prime numbers exist between given two numbers.
8. Write a program to convert Binary number to Octal number
9. Write a program to find average of unique numbers of an array of any n integers.
10. Write a program print integer number into words. i.e. 75 should print seventy five.
11. Write a program to find sum of elements of each row in a given 2-D matrix of order mXn.
12. Write a program to count positive elements of a given 2-D matrix of order mXn.
13. Write a program to sort n integers using Bubble Sort in descending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
1 * 2 * 3 * 4
 1 * 2 * 3
   1 * 2
    1
```

16. Write a program to print following pattern-

```
1
121
12321
1234321
```

17. Write a program to count vowels & consonant in a given string.
18. Write a program to search substring in given string.
19. Write a program convert Decimal to Roman Number.
20. Write a program to find factorial of a number using recursion.
21. WAP to draw a rectangle
22. Write a program to find out size of any file.
23. Write a program to min of n numbers using command line argument.
24. Write a program to print calendar of the given month.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-6 for SN 51 to 60

1. Write a program to calculate Volume of a sphere
2. Write a program to calculate Surface area of a cone
3. Write a program to calculate Sum = $X - X^3/3! + X^5/5! - X^7/7! \dots\dots\dots n$ terms
4. Write a program to merge two unsorted arrays into one sorted array.
5. Write a program to find out power of given number.
6. Write a program to find out square root of given number.
7. Write a program to find next prime number of a given number.
8. Write a program to convert Binary number to hexadecimal number
9. Write a program to find sum of squares of unique numbers of an array of any n integers.
10. Write a program to remove numbers greater than 10 of an array of any n integers.
11. Write a program to find sum of elements of each column in a given 2-D matrix of order mXn.
12. Write a program to count negative elements of a given 2-D matrix of order mXn.
13. Write a program to sort n integers using Insertion Sort in descending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
      1
     1 * 2
    1 * 2 * 3
   1 * 2 * 3 * 4
```

16. Write a program to print following pattern-

```
1
11
111
1111
11111
```
17. Write a program to print first name, middle name and last name from complete name of given person.
18. Write a program to convert case of first character of string in given paragraph of text.
19. Write a program print integer number into words. i.e. 75 should print seventy five.
20. Write a program to find factorial of a number using recursion.
21. WAP to draw a circle within a rectangle
22. Write a program to copy a data of file to other file.
23. Write a program to second largest of n numbers using command line argument.
24. Write a program to count number of days between two dates.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-7 for SN 61 to 70

1. Write a program to calculate Surface area of a cylinder
2. Write a program to calculate $SI = (P * R * T)/100$
3. Write a program to calculate $Sum = 1^3 - 2^3 + 3^3 - 4^3 \dots \dots \dots n$ terms
4. Write a program to merge two unsorted arrays into one sorted array.
5. Write a program to print all even numbers between 17 and 77.
6. Write a program to print the sum of all odd numbers up to any give limit.
7. Write a program to previous prime number of given number.
8. Write a program to convert Octal number to decimal number
9. Write a program to second smallest element of given array.
10. Write a program to duplicate element in a given array.
11. Write a program to find maximum element of each row in a given 2-D matrix of order mXn.
12. Write a program to find sum of boundary elements of a given 2-D matrix of order mXn.
13. Write a program to sort n integers using Linear Sort in descending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
*****5  
****4  
***3  
**2  
*1
```
16. Write a program to print following pattern-

```
0  
12  
345  
6789
```
17. Write a program to count particular character in a string.
18. Write a program to print the reverse of any given string.
19. Write a program print integer number into words. i.e. 75 should print seventy five.
20. Write a program to find factorial of a number using recursion.
21. WAP to draw two small circle within a large circle
22. Write a program which writes array in the file.
23. Write a program to sort n numbers using command line argument.
24. Write a program to count number of days of your age.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-8 for SN 71 to 80

1. Write a program to calculate compound interest
2. Write a program to calculate Trapezoidal rule
3. Write a program to calculate $Sum = 1^2 - 3^2 + 5^2 - 7^2 \dots_n$ terms
4. Write a program to print Fibonacci series of given range.
5. Write a program to find the LCM of two numbers.
6. Write a program to print prime palindromes between 1 and 1000.
7. Write a program to generate prime numbers between two given numbers.
8. Write a program to convert Octal number to binary number
9. Write a program to merge two unsorted arrays into one sorted array.
10. Write a program to find sum of logarithmic series.
11. Write a program to find maximum element of each column in a given 2-D matrix of order $m \times n$.
12. Write a program to find sum of only positive elements of a given 2-D matrix of order $m \times n$.
13. Write a program to sort n integers using Bubble Sort in descending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
*1
**2
***3
****4
*****5
```
16. Write a program to print following pattern-

```
6789
345
12
0
```
17. Write a program to compare two strings with case sensitivity.
18. Write a program to remove duplicate characters from string.
19. Write a program print integer number into words. i.e. 75 should print seventy five.
20. Write a program to find factorial of a number using recursion.
21. WAP to fill and draw and eclipse.
22. Write a program which concatenate two files and write it into third file.
23. Write a program to print numbers into words using command line argument.
24. Write a program to calculate number of years, months and days of your age.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-9 for SN 81 to 90

1. Write a program to calculate Simpsons rule $1/3$
2. Write a program to calculate Simpson rule $3/4$
3. Write a program to calculate Sum = $1 + 2 + 3 + \dots + n$
4. Write a program to print Fibonacci series of given range.
5. Write a program to find sum of square of digits of given number.
6. Write a program to input any number from a user and print whether it is armstrong or not.
7. Write a program to largest prime number of n digits.
8. Write a program to convert Octal number to hexadecimal number
9. Write a program to find sum of prime numbers of an array of any n integers.
10. Write a program to find sum of even numbers of an array of any n integers.
11. Write a program to find minimum element of each column in a given 2-D matrix of order mXn.
12. Write a program to arrange elements of each row in ascending order in a given 2-D matrix of order mXn.
13. Write a program to sort n integers using Selection Sort in descending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
*****
*****
*****
**
*
**
*****
*****
*****
```

16. Write a program to print following pattern-

54321
5432
543
54
5
17. Write a program that prints the reverse of a string.
18. Write a program that counts the number of characters in a given string.
19. Write a program to find sum of sine and cos series.
20. **WAP** to input a string from a user and print the length of a string and find position of a character in a string.
21. **WAP** to draw a circle within a rectangle
22. Write a program which concatenate two files and write it into third file.
23. Write a program to print numbers into words using command line argument.
24. Write a program to find age of given person on current date.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-10 for SN 91 to 100

1. Write a program to calculate Newton rephsan rule
2. Write a program to calculate Bisection method
3. **WAP** that implement the calculation the square root of any given number
4. Write a program to check whether a point lies inside or outside of a circle.
5. Write a program to find sum of square of digits of given number.
6. Write a program to input any number from a user and print whether it is armstrong or not.
7. Write a program to find smallest prime number of n digits.
8. Write a program to convert Hexadecimal number to decimal number
9. Write a program for insert an element at desired position in an array.
- 10.
11. Write a program to find minimum element of each row in a given 2-D matrix of order mXn.
12. Write a program to arrange elements of each column in ascending order in a given 2-D matrix of order mXn.
13. Write a program to sort n integers using Bubble Sort in descending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
 *
  A*A
 *A*A*
A*A*A*A
```

16. Write a program to print following pattern-

```
54321
 5432
   543
    54
     5
```

17. Write a program to convert case of first character of string in given paragraph of text.
18. Write a program to read a string from a user and print it in the following format. If Mohandas Karamchand Gandhi is entered, it will print M.K. Gandhi.
19. Write a program print integer number into words. i.e. 75 should print seventy five.
20. Write a program to find factorial of a number using recursion.
21. WAP to draw a polygon
22. Write a program which concatenate two files and write it into third file.
23. Write a program to sum of digits of a number using command line argument.
24. Write a program to print name of the day of your date of birth.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-11 for SN 101 to 110

1. Write a program to calculate Regula – false position method
2. Write a program to calculate $V = \sqrt{u^2 + 2as}$
3. Write a program to calculate $\text{Sum} = 1 + 1/2! + 1/3! + \dots + 1/n!$
4. Write a program to calculate $\text{Sum} = 1 + 2/3! + 4/5! + \dots + (n-1)/n!$
5. Write a program for insert an element at desired position in an array.
6. Write a program to print unique elements from list of n elements.
7. Write a program to find average of first n prime numbers.
8. Write a program to convert Hexadecimal number to Octal number
9. Write a program to find second largest of given n numbers.
10. Write a program to middle element of the given n numbers when arranged in sorted order.
11. Write a program to find minimum element of diagonal in a given 2-D matrix of order mXn.
12. Write a program to arrange elements of each column in descending order in a given 2-D matrix of order mXn.
13. Write a program to sort n integers using Insertion Sort in descending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
A*A*A*A
 *A*A*
  A*A
   *
```

16. Write a program to print following pattern-

```
123456789
 2345678
  34567
   456
    5
```

17. Write a program to search substring in given string.
18. Write a program to convert lower case to upper case of a sentence.
19. Write a program which replaces all the vowels in a string with character “n”
20. Write a program to find factorial of a number using recursion.
21. Write a program to draw a circle and fill it with color ‘Red’.
22. Write a program to read all the text from a text file.
23. Write a program to count odd numbers in series of n numbers using command line argument.
24. Write a program to print name of the day of your date of birth.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-12 for SN 111 to 120

1. Write a program to calculate Viscosity of any oil
2. Write a program to calculate the strength of CuSo4
3. Write a program to print Fibonacci series of given range.
4. Write a program to find middle number of three numbers when arranged in sorted order.
5. Write a program to input any number from a user and print whether it is armstrong or not.
6. Write a program to print series of armstrong numbers upto n.
7. Write a program to generate random prime numbers.
8. Write a program to convert Hexadecimal number to binary number
9. Write a program for insert an element at desired position in an array.
10. Write a program to find sum of prime numbers of an array of any n integers.
11. Write a program to find multiplication of two matrices of order pXq and qXr
12. Write a program to find sum of all the elements of matrix of order pXq.
13. Write a program to sort n integers using Selection Sort in descending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

A
AB
ABC
ABCD
ABCDE
ABCDEF
16. Write a program to print following pattern-

112233
1122
11
17. Write a program to print ASCII value of all characters.
18. Write a program to remove duplicate characters from string.
19. Write a program to print number of lines in a given paragraph of text.
20. Write a program to find factorial of a number using recursion.
21. WAP to draw a polygon
22. Write a program which print mark sheet of a student in the text file.
23. Write a program to count even numbers in series of n numbers using command line argument.
24. Write a program to print calendar of a given year.
25. Write a program to print address & value of a variable or object.

Oriental Institute of Science and Technology, Bhopal

Assignment on Computer Programming (C,C++,Java, C#.net)

(All Branches of Engineering)

Set-13 for SN 121 to 130

1. Write a program to calculate Resistance of a wire R
2. Write a program to calculate $L=a/b^2+c^d$
3. Write a program which deletes the duplicate element of an array.
4. Write a program to print spaces in a given text.
5. Write a program to input any number from a user and print whether it is a negative or a positive number.
6. Write a program to input any number from a user and print whether it is even or odd number.
7. Write a program to sum of square of first n prime numbers.
8. Write a program to convert Decimal number to Octal number
9. Write a program for insert an element at desired position in an array.
10. Write a program to remove an number from particular position in an array of any n integers.
11. Write a program to square all the elements of matrix of order pXq and print it.
12. Write a program to count prime numbers in a given matrix of order pXq.
13. Write a program to sort n integers using Bubble Sort in descending order.
14. Write two separate functions in a program to search an element in a given list of n integers using Linear Search and Binary Search.
15. Write a program to print following pattern-

```
ABCDEF
ABCDE
ABCD
ABC
AB
A
```

16. Write a program to print following pattern-

```
0000000
 111111
  22222
   3333
    444
     55
      6
```

17. Write a program to print number of occurrences of each character in a given string.
18. Write a program to search substring in given string.
19. Write a program to compare two strings with case sensitivity.
20. Write a program to find factorial of a number using recursion.
21. Write a program to draw a Circle.
22. Write a program which writes array in the file.
23. Write a program to find sum of n numbers using command line argument.
24. Write a program to find age of given person on current date.
25. Write a program to print address & value of a variable or object.