

Tilak Maharashtra University

Diploma in Engineering

Year –SY

Branch- E&TC/Comp

Semester -3rd

Sub: 'C' Programming

Theory Assignment – 1

- 1) Define Algorithm and flowchart. Write down the symbols which are used to draw a flowchart.
- 2) Write an algorithm and draw a flowchart for –
 - a) Area of Circle
 - b) Area of Rectangle
 - c) Circumference of a circle
- 3) Write a short note on –
 - a) Keyword
 - b) Constants
 - c) Variable
 - d) Logical Operators
 - e) Conditional Operator
- 4) Explain if.....else statement with example.
- 5) Explain nested if.....else statement with example.
- 6) Write a short note with syntax and example on –
 - a) While loop
 - b) For loop
 - c) Do....while loop
- 7) Write down the difference between while and do...while loop.
- 8) Write a program to check whether the given number is positive number or negative number.
- 9) Write a program to check whether the given number is odd or even number.
- 10) Write a program to find the maximum number from the accepted two numbers.

Theory Assignment – 2

- 1) Define Array.
- 2) Explain Array with its types.
- 3) Write a program to accept 10 numbers in an array and print odd and even numbers.
- 4) Write a program to convert decimal number to its binary equivalent.
- 5) Write a program to find maximum and minimum number from 3 x 3 matrix.
- 6) Explain String.
- 7) Explain following function with example –
 - a) Gets()
 - b) Puts()
 - c) Strlen()
 - d) Strrev()
 - e) Strcpy()
 - f) Strcmp()
 - g) Strcat()
- 8) Write a program to remove all the vowels and spaces from a given string.
- 9) Write a program to sort an array in ascending and descending order.
- 10) Write a program to check whether the accepted string is palindrome or not.