VPMP Polytechnic Computer Department

BCP (4310702)

Assignment: 1

- 1) What is Flow chart? Draw and Explain symbols of Flowchart.
- 2) Give advantages and disadvantages of flowchart.
- 3) Explain different structure of Flowchart.
- 4) What is Algorithm? Give advantages and disadvantages of Algorithm.
- 5) Draw Flowchart to Calculate the Area of Circle. Write down algorithm for the same.
- 6) Draw Flowchart to find out Maximum number out of two numbers.
- 7) Write an Algorithm to find out whether the given number is odd or even.

Assignment: 2

- 1) List the features of C.(List the advantages of C.)
- 2) Draw a basic structure of C program and explain in short.
- 3) Explain C Tokens (with types), keywords and identifiers.
- 4) Explain Constants with example.
- 5) Define variable. List out rules for variable naming.
- 6) List the basic data types with its size and range.
- 7) List operators available in C. Explain Arithmetic, Relational, Logical operators in C.
- 8) Explain Conditional and bitwise operators in C.
- 9) Explain explicit and implicit type casting.
- 10) Evaluate following arithmetic expression.
 - (1) x=9-12/3+3*2-1;
 - (2) y=9-12/(3+3)*(2-1)
 - (3) z=9-(12/(3+3)*2)-1
- 11) Convert the following expression into its equivalent C expression.
 - $(1) y = ax^2 + bx + c$
 - (2) $y = \frac{m1+m2}{1-m1m2}$
 - (3) $y = \sqrt{s(s-a)(s-b)(s-c)}$
 - (4) $y = \sqrt{a^2 + b^2}$

Assignment-3

- 1) Explain **Nested If-else** statement with example.
- 2) Explain **If-else-if Ladder** statement with example.
- 3) Explain **Switch** statement with example.
- 4) Explain Unconditional branching statement- **goto**.
- 5) Explain **while loop** and **do-while** loop with example.
- 6) Compare While loop and do-while loop.(Compare Entry-control loop and Exit-control loop)
- 7) Explain **for loop** with example.
- 8) Explain **Break** and **continue** statements with example.

Assignment-4

- 1) Define array. Give characteristics of an array.
- 2) What is an array? How to declare and initialize 1-D array.
- 3) How to declare and initialize 2-D array.
- 4) Write a program to read 5 elements of array and display it.
- 5) Define String. How to declare and initialize string.
- 6) Explain gets () and puts ().
- 7) Define pointer. How to declare and initialize pointer.
- 8) Explain void pointer.
- 9) Explain pointer to pointer.

Assignment-5

- 1) What is user defined(UDF) and library function? Explain with two example of each.
- 2) Explain call by value with example.
- 3) Explain call by reference with example.
- 4) Explain recursion with example.
- 5) Explain following string function with example.
 - (1) strcpy() (2) strcat() (3) strcmp() (4) strlen()
- 6) List out math in-built functions.
- 7) List available storage class in C.

Assignment-6

- 1) Explain enumerated data type with example.
- 2) How to declare a structure? State the difference between structure and union.
- 3) Differentiate between array and structure.
- 4) Define File. List files operations. Explain fscanf() & fprintf () functions with examples.
- 5) Explain fopen() & fclose() functions with examples.