SIR PADAMPAT SINGHANIA UNIVERSITY

Home Assignment

Programme/Branch: B.Tech.   Semester: II

Subject: Structured Programming Approach   Subject Code: CS-1001

Date of Submission: On or before 26/03/3020

Q1.

(a) What will happen?

I.   When array elements are not initialized at the time of array declaration.

II.   When data type of a variables in function declaration does not match with the corresponding variable in the function header.

III. When there is more number of values in the initialization list as compared to size of the array at the time of array declaration and initialization.

(b) Write a function that accepts an integer between 1 and 12 to represent the month number and displays the corresponding month of the year (For example if month=1, then display JANUARY). Also write the main Program.

Q2.

(a) Write the advantages of recursion in programming. Write a program to find the factorial of a given integer number

(1) using recursion   (2) without using recursion

(b) What is the need of initialization of an array in C programming? Explain static and dynamic array initialization with the help of suitable programming example.

Q3.

(a) Explain the use of storage classes in C programming language. Explain each storage in details with suitable programming example.

(b) Write a C program to search an element from a given list of 50 elements using array.

Q4. Write a C program to calculate the x to the power y where value of x and y integer variables are entered through keyboard. The program must have function to calculate x to the power y.

Q5.
    (a) Write a menu driven program to perform all basic arithmetic operations like addition, subtraction, multiplication and division between 2 values. Each operation must be implemented using separate function.

    (b) Write a program in C to find out the minimum and maximum integer values from the array elements.