Quiz#02
Programming Fundamentals (Fall-2024)
Computer Science (Faculty of Information Technology)

Allotted Time: 45 Minutes   **Marks 10**   **Dated: 27-01-2025**

Note: Code/comment all the given questions using your own understanding and wording

Question#01

Using **the only pointer variable**, find out the average of the numbers initialized in an array oof [size 7].

Question#02

Write a program using a structure that comprises structure members such as student ID, Student Name, Student GPA, and Student's 7 marks in an array and we have to initialize the record of two students in two different structure variables. (One is Global and the other one local). Pass this data of two students to a UDF and the UDF prints the data for both students.

Question#03

Write a C program that calls a UDF function i.e., string(). The string() takes a string input at a run time and sends this string to another UDF i.e., length(). The length() function computes its length without using a built-in function and returns the length.

Question#04

Write a program using a "switch case" which asks a user to choose a number (1-4) (in main()) from the display menu to perform the following functions using UDF (user-defined function):

- For "1" calculate the square root of that number.   square()
- For "2" calculate the cube of that number.   cube()
- For "3" print that number 50 times.   print()
- For "4" print the table of that numbered   table()
- In the case of none of the above cases, print invalid choice.

Question#05

With the help of any source code in C of your choice, show the working of function overloading.

Question#06

Write a program that globally declares and assigns 10 integer values in an array. In UDF ask for the user to prompt a number to be searched from the array list and UDF search that number and return the position to main() function if it is found.