**Due Date: 26-10-22**

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# University Institute of Information Technology

Course Instructor: Dr. Asif Nawaz Class: BSIT/BSSE (M/E)

# Important Notes:

**Assignment No. 1**

Assignments will be submitted on time. You will have 10 hours to submit the assignment after the due date & time. However, 10% marks will be deducted for every passing hour after the due time. Copying/Cheating whole or part of the assignment from anywhere without proper credit/references will not be tolerated. Whether you have copied or your work has been copied by someone else, you will get zero marks in that assignment.

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**Exercise 1:** Write C# code to declare a variable to store the age of a person. Then the output of the program is as an example shown below:

You are 20 years old.

**Exercise 2:** Write C# code to display the asterisk pattern as shown below:

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**Exercise 3:** Write C# code to declare two integer variables, one float variable, and one string variable and assign 10, 12.5, and "C# programming" to them respectively. Then display their values on the screen.

**Exercise 4:** Write C# code to prompt a user to input his/her name and then the output will be shown as an example below:

Hello John!

**Exercise 5:** Write a C# program to detect key presses.

If the user pressed number keys (from 0 to 9), the program will display the number that is pressed, otherwise the program will show "Not allowed".

**Exercise 6:** Write a C# program that allows the user to choose the correct answer of a question. See the example below:

What is the correct way to declare a variable to store an integer value in C#?

1. int 1x=10;
2. int x=10;
3. float x=10.0f;
4. string x="10";

Choose the answer letter: c Incorrect choice!

**Exercise 7:** Write C# code to print the following pattern:

1\*\*\*\*\*\*

12\*\*\*\*\*

123\*\*\*\*

1234\*\*\*

12345\*\*

123456\*

1234567

**Exercise 8:** By using the sequential search algorithm, write C# code to search for an element of an integer array of 10 elements.

**Exercise 9:** By using C# objected-oriented concept, create a list using GENERICS. Provide all functionalities as shown in figure.

