BAHRIA UNIVERSITY (Karachi Campus)

Department of Software Engineering

Computer Programming [CSC-113]

Assignment 1 - Fall 2022

[CLO-3]

Class: **BSE-1 [A/B/C]**   Marks: **5**

Course Instructor: **MUHAMMAD FAISAL**

[The marks of this assignment may increase or decrease]

Read Carefully:

- This assignment has **10 problems** that you have to code and submit as a single word file
- The deadline for this assignment is *before* or *on* **Sunday, 6th October, 2022.**

WARNINGS:

- This is an individual assignment; you must solve it by yourself. Any form of plagiarism will result in receiving zero in the assignment.
- Late submission will not be accepted. Any assignment submitted after the cutoff time will receive zero.

1. Write a c# program to find that a person is allowed to sit in BSE-1. (Hint: He is allowed if he belongs to BUKC and he is the student of first semester and he is a student of software engineering).

2. Write a c# program to print number of days in given month using switch-case.

3. Write a C# program that takes integer between 1 and 12 from user and displays the name of the month using switch-case.

4. Write a c# program to check if the given year is a leap year or not (A year may be a leap year if it is evenly divisible by 4. Years that are divisible by 100 (century years such as 1900 or 2000) cannot be leap years unless they are also divisible by 400)).

5. Write a c# program to check if given triangle is right angle triangle, acute angle triangle or obtuse angle triangle.

6. Write a c# program to print an appropriate message for Go, Stop and Wait on the bases of traffic lights by taking color of light as input

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7. Write a c# program to calculate discount for a departmental store. The departmental store has two types of customers: 1) Walk-in customers 2) Registered customers. For registered customers, they are offering 5% discount if their monthly transaction is more than Rs.100000 and 5.5% discount if their monthly transaction is more than Rs.200000, otherwise they will get a discount of 3.5%. For Walk-in customers a 2% discount is available if the transaction amount is more than 50,000.

8. Write a c# program to calculate the total fee of a student of Bahria University (@ Rs.5000 per credit hour). There is a 50% discount for students from a naval background, a 20% discount for students with a sibling already studying in Bahria University and a 30% discount for Bahria University permanent employees.

9. Write a c# program for user account login for userid = "admin" and password = "123456" (check userid and password).

10. Write a c# program to check if given alphabet is a vowel or not.