



AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH

Faculty of Science and Technology
Department of Computer Science
CSC 1102 Introduction to Programming

Mid Term Assignment

Spring 2021-22

Total Marks: 30

Course Teacher: MD.NAZMUL HOSSAIN

Time: 1 week

General Instructions:

1. Answer all the questions (Handwritten).
2. Use pencil / pen to write the answer and to draw diagrams.
3. Use AIUB Assignment Cover Form (download from portal) as cover page.
4. Prepare yourself for viva what you have written before submitting the assignment.
5. Complete the assignment with viva preparation by Sunday (20 March 2022)
6. Submission Guidelines:

Time : Lab Class Time

Place: Lab Class Room

******* Please don't try to Copy & Paste otherwise if caught in VIVA then he/she will get 0 out of 30.**

1. Briefly Explain the following keywords:

- a. int
- b. char
- c. float
- d. bool
- e. string
- f. const
- g. break
- h. continue

2. Explain following questions with proper example:

- a. What is Pseudo Code? Why we need Pseudo Code?
- b. What is Flowchart? Why we need Flowchart?
- c. What is Function? Why we need Function?
- d. What is Array? Why we need Array?
- e. What is Pointer? Why we need Pointer?
- f. Write all the operator according to the precedence with proper description in a Table.
- g. Write all the functions of the string with proper description & Example in a Table.

3. Write the pseudocode & Draw the flow chart accurately for the following problems.

- a. If a given number is even or odd
- b. If a given number is positive or negative
- c. If a given number is leap-year
- d. The largest number between two given number
- e. Sum of all the natural number from 1 to a given number

4. Write code for the following problems using C++ programming language

- a. Number of days is taken from user input, write a C++ program that converts the number of days into years, weeks, and remaining days.
- b. Write a C++ program which will take an integer value from the user and output the value after incrementing it twice and again after decrementing it thrice.
- c. Take n number of values in an array and display in the same order and reverse order by writing a C++ program.
- d. Take n number of values in an array and find the number of duplicate values entered in the array by writing a C++ program.
- e. Write a program in C++ to find the area of square, rectangle and triangle of any number using the function.
- f. Write a program in C++ to check whether a number is a prime number or not using the function.
- g. Write a program in C++ to get largest element of an array using the function.

Good Luck !