



American International University-Bangladesh (AIUB)

Department of Computer Science Faculty of Science & Technology (FST)

Mid Term Assignment

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| Course Name | INTRODUCTION TO PROGRAMMING LAB [Fall 2023-2024] | | | Set |
| Faculty Name | SALAHUDDIN ELIAS KHAN | | | S |
| Student Name | | | | |
| Student ID | | | | |
| Section | | Date | | |

❖ Instructions:

- In order to submit it in teams your assignment in teams zip the file containing your **.cpp file, .exe file and .o file**. Rename the folder with your name, ID and section.
Example:
 1. Salahuddin Elias Khan [20-44139-2] [IP-A].zip
 2. Salahuddin Elias Khan [20-44139-2] [IP-H].zip
- Do not copy your code from your friends. If you do there will be consequences.
- Make sure to turn in your assignments by the deadline. (by week 8)

| Questions | Marks |
|--|-----------|
| <p>Write a C++ code to make a calculator with the following functions:</p> <ol style="list-style-type: none">1. Addition: (First ask the user how many numbers he/she wants to add. Take the inputs in an array.)2. Subtraction: (Take 2 inputs)3. Multiplication: (First ask the user how many numbers he/she wants to multiply. Take the inputs in an array.)4. Division: (Take 2 inputs and remember if divider is zero print a error message.)5. Clear Screen: (Find how to do it yourself. You will need to import a library.)6. Exit: (The problem will end that is to say the infinite loop will stop and the program will terminate. Return 0) <ul style="list-style-type: none">○ <i>First the program will tell the user to select from options 1 to 6. Then the operations will start.</i>○ <i>An example of how the program should be has been given. Run the Calculator.exe file to see how the program should run. Note that I have not used array in the example you have to take the input in an array for addition and multiplication.</i>○ <i>Invalid Option: If there is an invalid option then print an error message and reset the loop.</i>○ <i>Handle infinite loop error.</i> | 30 |