

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Science and Technology (FST)

Department of Computer Science (CS)

Introduction to Programming Lab Tasks

1. Take any integer input through the keyboard. Write a program to find out whether it is a positive number or a negative number. If the number is positive find out whether it is an odd number or an even number.
2. Take any letter input through the keyboard. Write a program to find out whether it is a vowel or a consonant. For non-alphabet inputs, the output will be "Not a character".
3. Take a character as input through the keyboard. Write a program to find out whether the gender is Male or Female. (Using If-else and switch case)
Inputs: take input 'M' or 'm' for male and take input 'F' or 'f' for female. For any other input, the result will show "Undefined".
4. Take any 3 integer numbers as input through the keyboard. Write a program to find out the smallest number among 3 numbers and whether the smallest number is Even or Odd. (Using If-else)
5. Find the absolute value of a number entered through the keyboard. (Using If-else)
6. Take any 5 integer numbers as input through the keyboard. Write a program to find out the 3rd largest number among 5 numbers. (Using If-else)
7. A student will not be allowed to sit for an exam if his/her attendance is less than 80%.
Take the following input from the user,
 - a. Number of classes held.
 - b. Number of classes that were attended by the student.Find out the attendance percentage for the student and show if the student will be allowed to sit for the exam or not. (Using If-else)

8. A University has the following rules for the grading system:

Mark	Grade	GPA
90-100	A+	4.00
85-89.99	A	3.75
80-84.99	B+	3.50
75-79.99	B	3.25
70-74.99	C+	3.00
65-69.99	C	2.75
60-64.99	D+	2.50
50-59.99	D	2.25
0-49.99	F	0.00

Write a program that will take 5 course marks as inputs. Show the received grades for each of them. Also calculate the CGPA using the five marks.