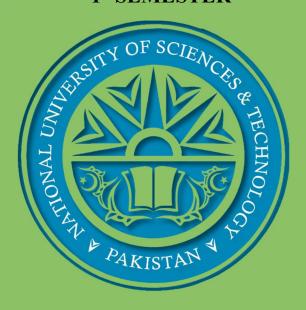
Fundamentals of Programming

Lab Report 01

1st SEMESTER



Session: ME-15 Section: C

ABDUL RAFEH

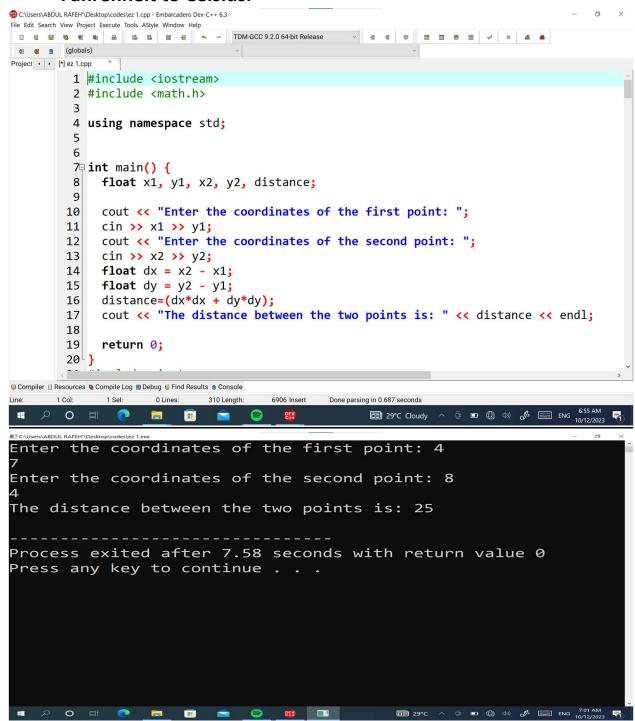
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School of Mechanical and Manufacturing Engineering

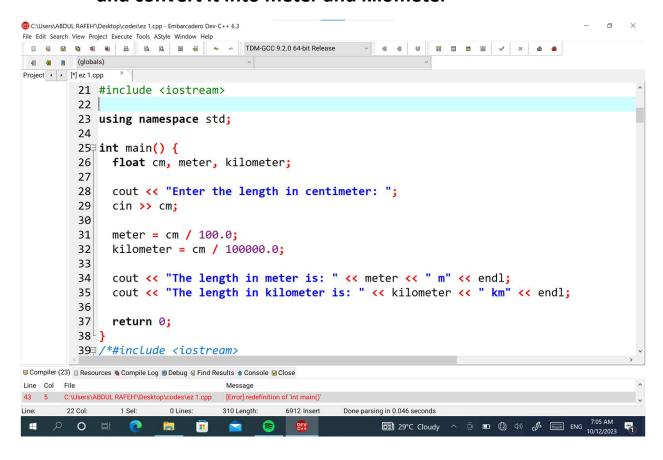
MANUAL 1

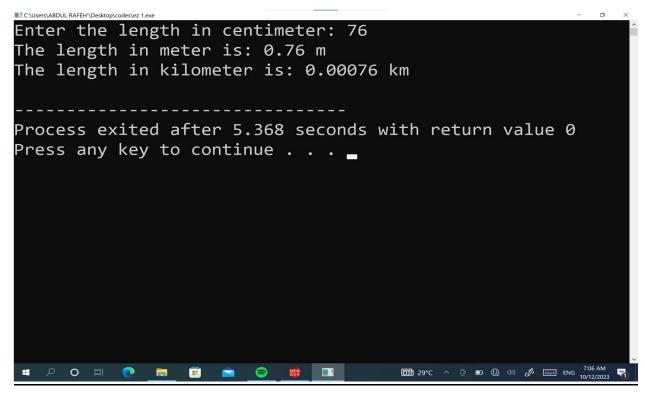
LAB TASK:

1. Write a program in C++ to convert temperature in Fahrenheit to Celsius.

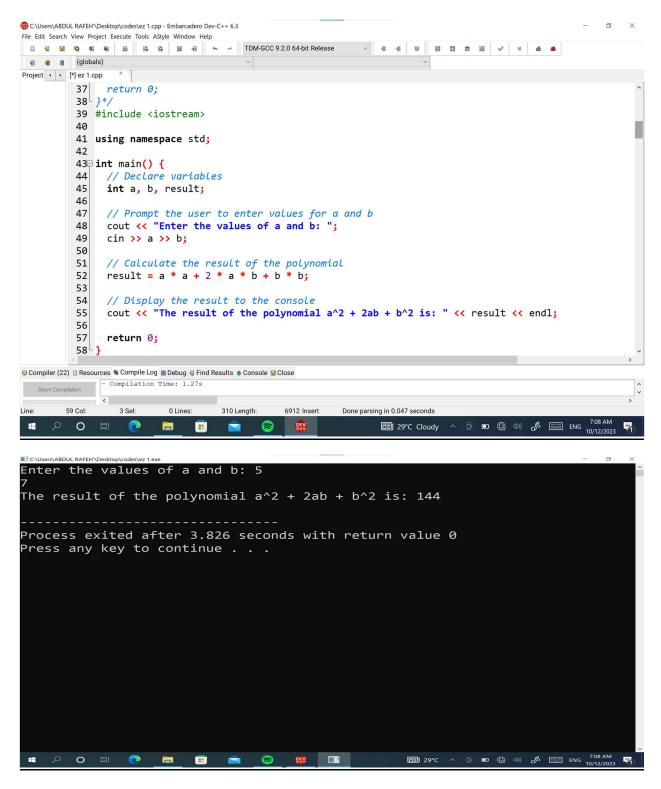


2. Write a code in C++ to take length from user in centimeter and convert it into meter and kilometer

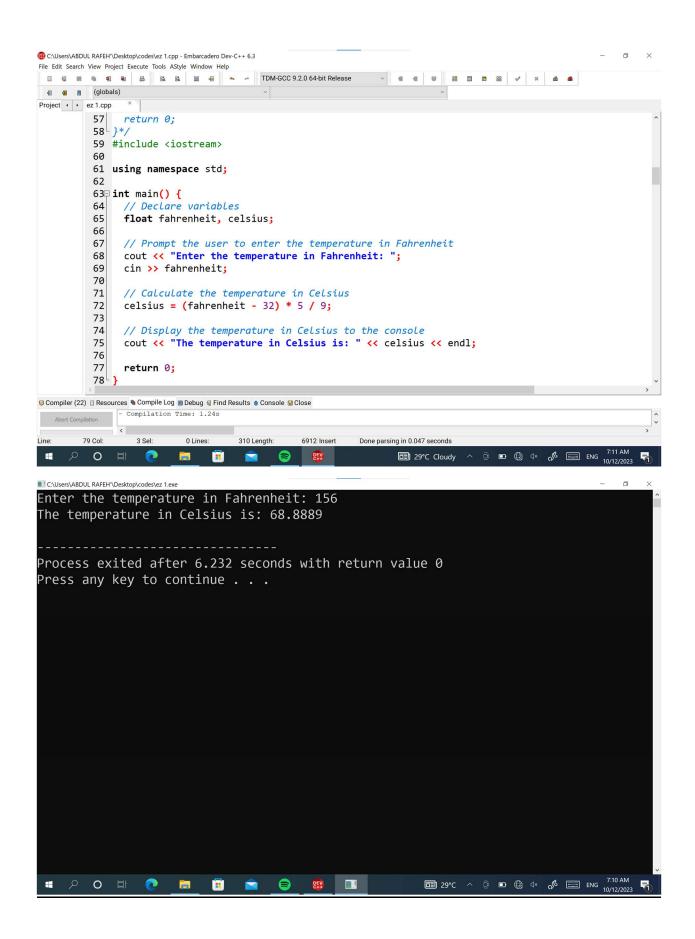




3. Write a code in C++ that takes values of a and b from the user and displays result of polynomial a 2 + 2ab + b 2.

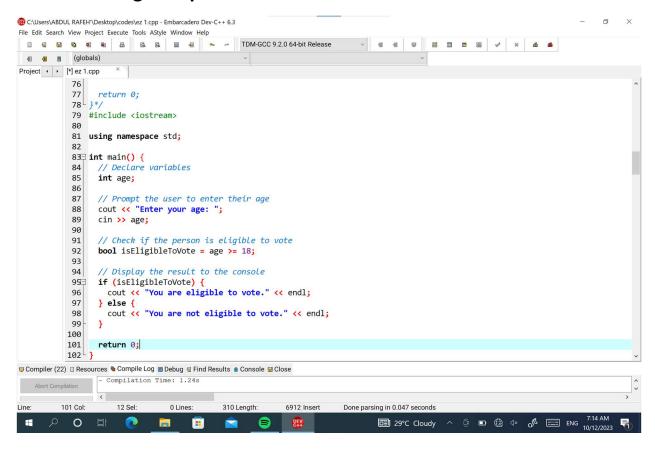


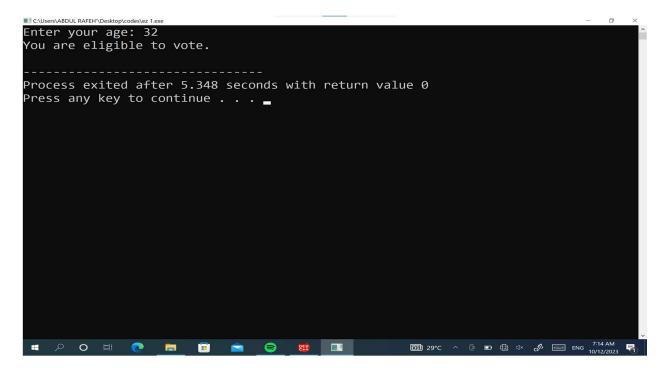
4. . Write a program in C++ to convert temperature in Fahrenheit to Celsius.



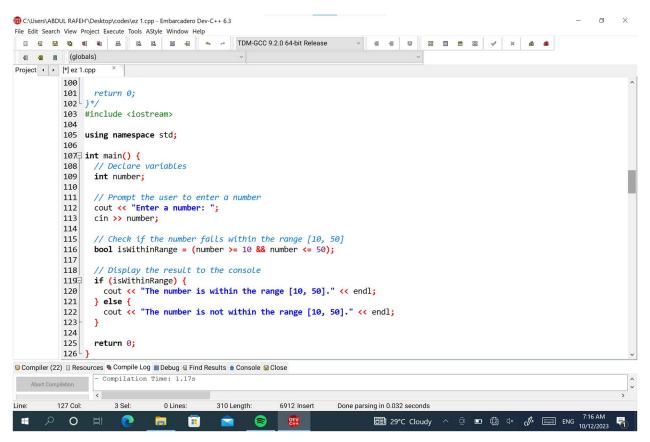
LAB MANUAL 2:

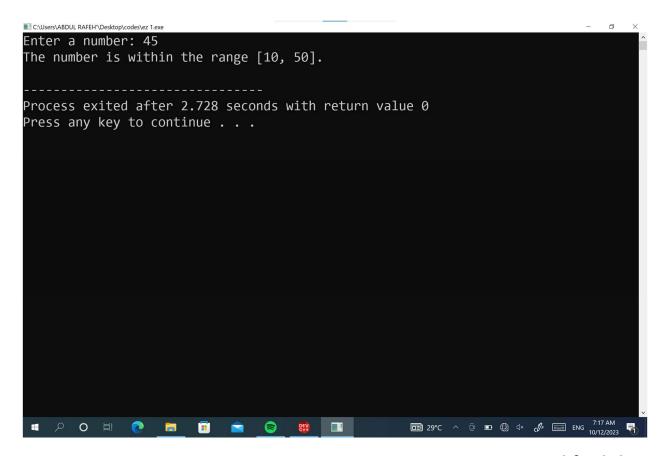
5. Write a program that determines if a person is eligible to vote based on their age (e.g., 18 years or older) using logical operators.



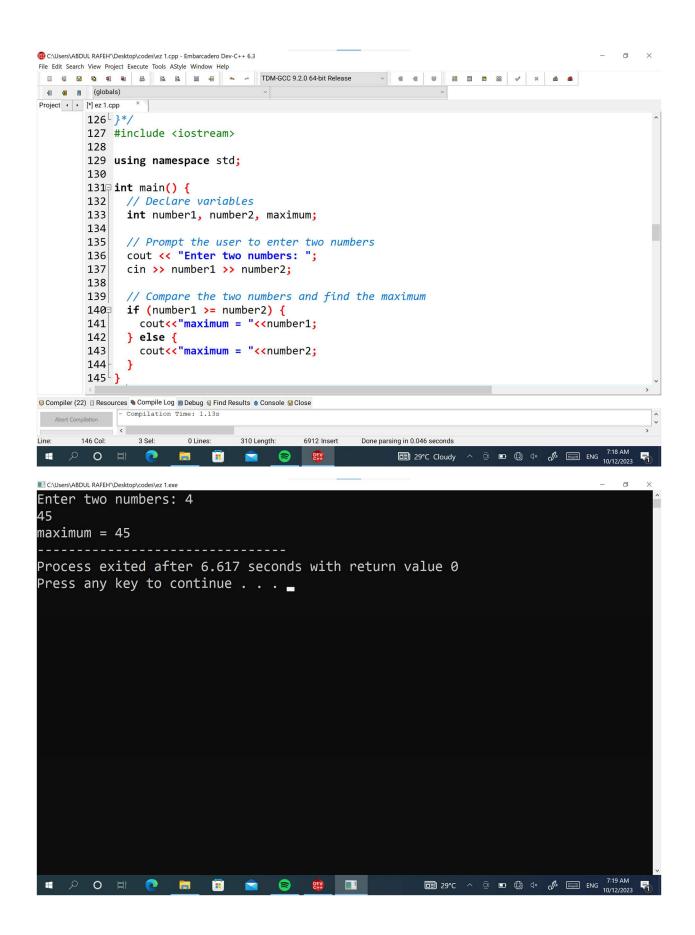


6. Write a program that takes an integer as input and checks if it falls within the range [10, 50] using logical operators.

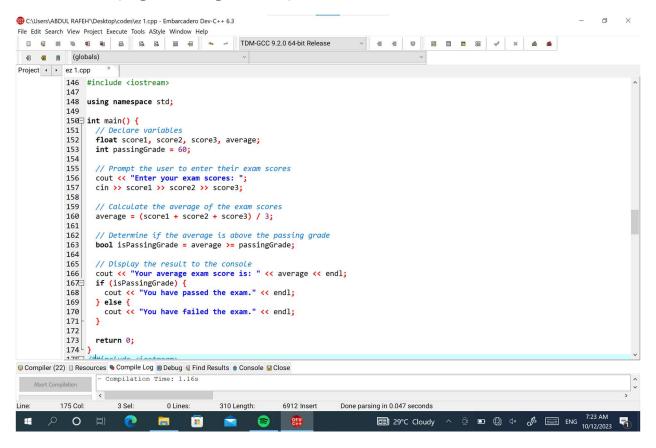


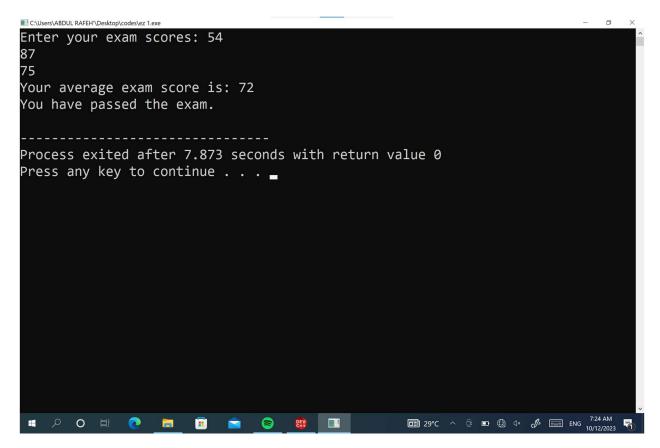


7. Write a C++ program to compare two integers and find the maximum value



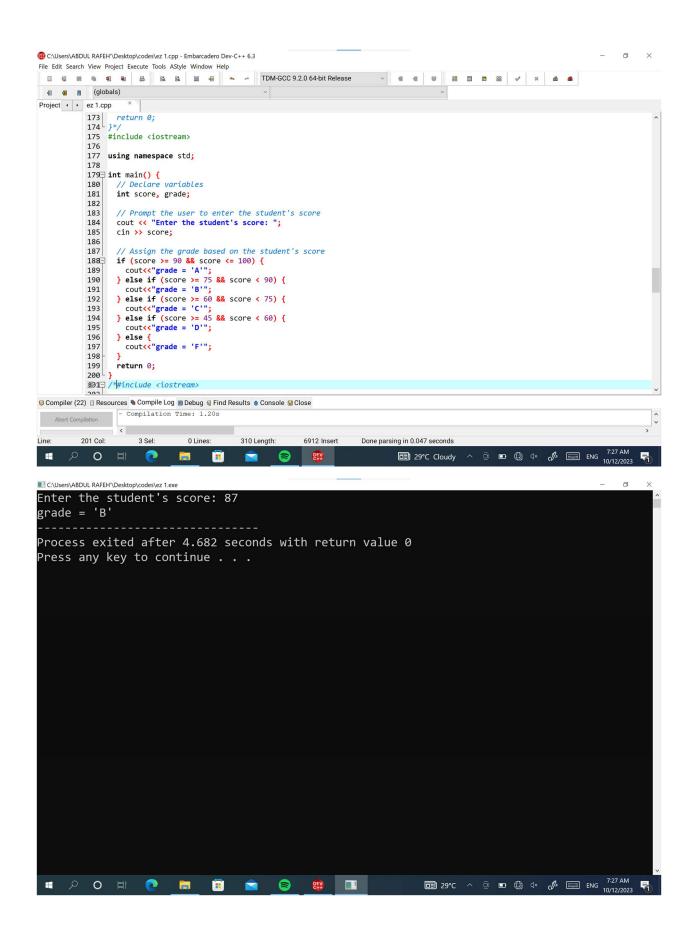
8. Write a C++ program to calculate the average of three exam scores and determine if it's above a passing grade (e.g., average >= 60)



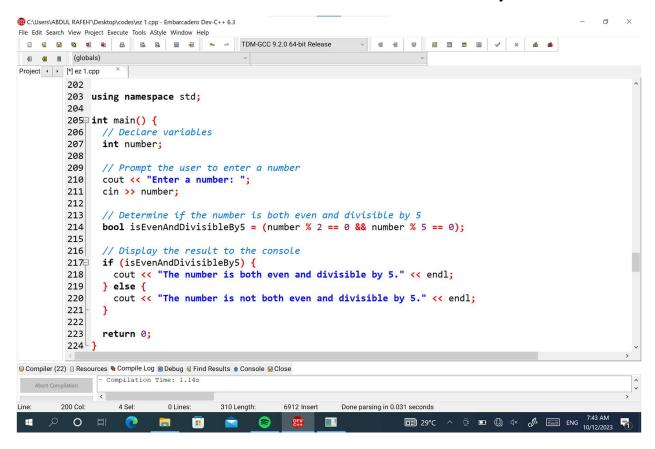


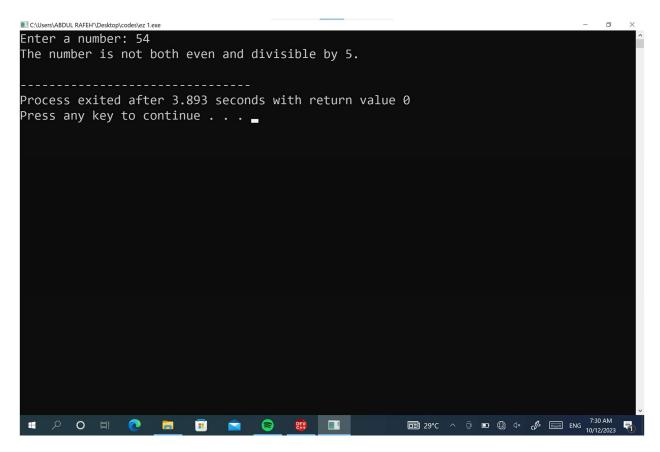
9. Create a program that takes a student's score as input and assigns a grade based on predefined criteria using logical operators (e.g., A, B, C, D, F). A-Grade: 90-100 Marks B-Grade: 75-90 Marks C-Grade: 60-75 Marks D-Grade: 45-60

Marks F-Grade: 0-45 Mark

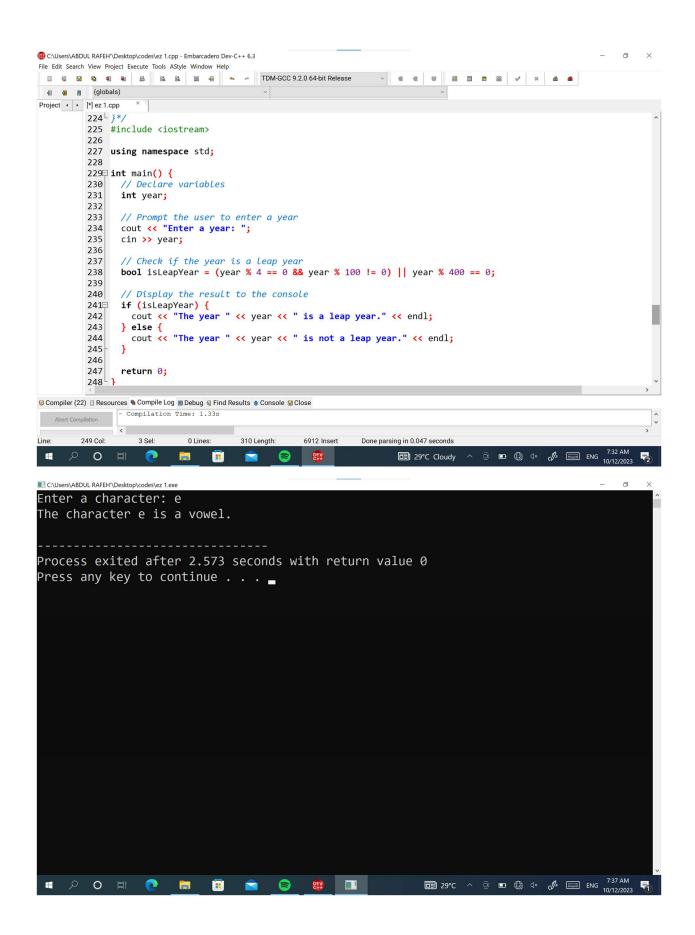


10. Write a program that takes an integer as input and determines if it is both even and divisible by 5.

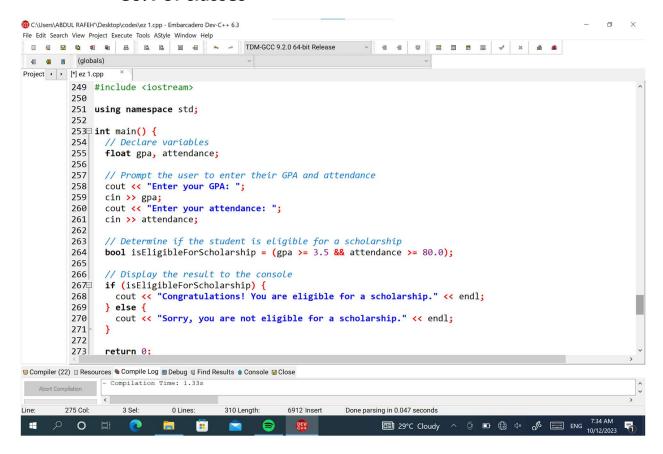


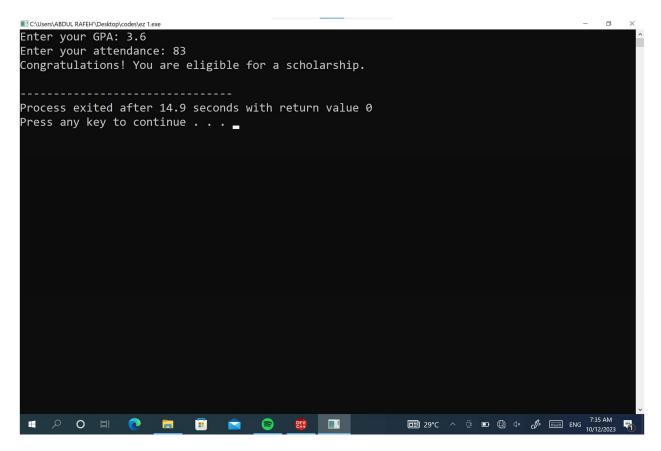


11. Create a C++ program that checks if a user-provided year is a leap year



12. Create a C++ program that determines if a student is eligible for a scholarship based on their GPA (must have GPA >= 3.5) and attendance (must have attended at least 80% of classes





13. Write a program that checks if a given character is a vowel (a, e, i, o, u) or a consonant using logical operators

