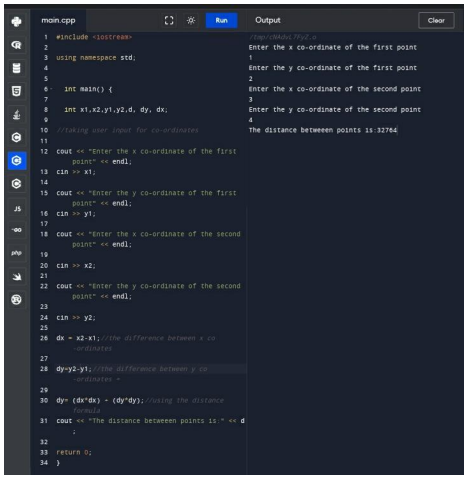
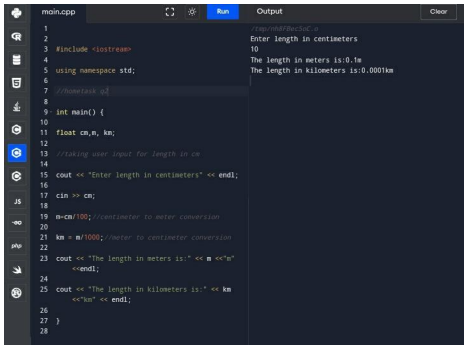
Name: Hamdan Hafeez Malik
Roll: 480469

Lab Manual 1 (HOME TASK)

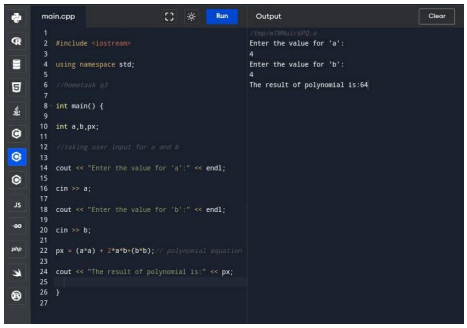
Q1:



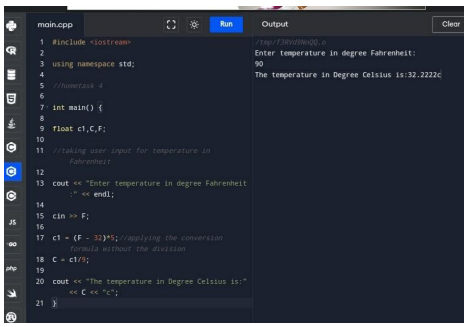
Q2:



Q3:

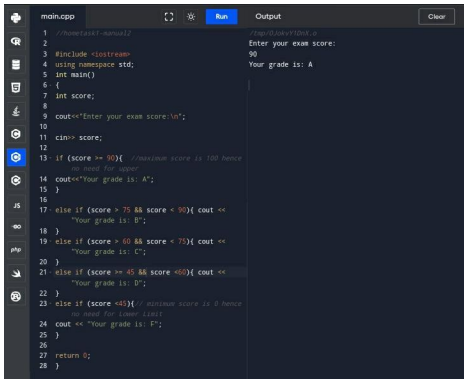


Q4:

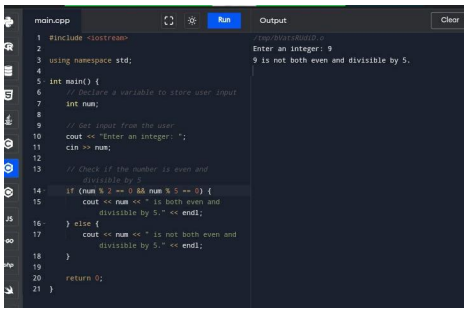


Lab Manual 2 (HOME TASK)

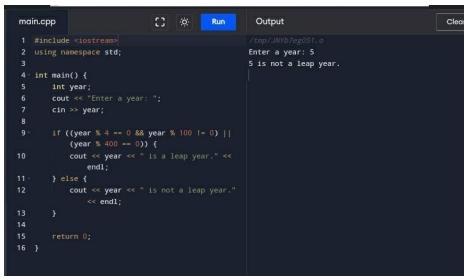
Q1:



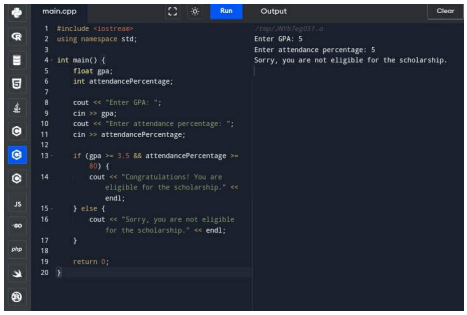
Q2:


main.cpp
Run
Output
Clear
#include <iostream>
using namespace std;
int main() {
// Declare a variable to store user input
int num;
// Get input from the user
cout << "Enter an integer: ";
cin >> num;
// Check if the number is even and divisible by 5
if (num % 2 == 0 && num % 5 == 0) {
cout << num << " is both even and divisible by 5." << endl;
} else {
cout << num << " is not both even and divisible by 5." << endl;
}
return 0;
}
/tmp/BVatsRUdID.o
Enter an integer: 9
9 is not both even and divisible by 5.

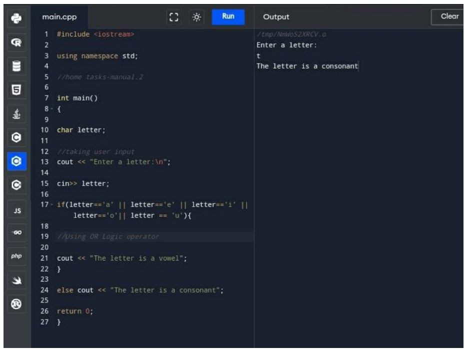
Q3:


main.cpp
Run
Output
#include <iostream>
using namespace std;
int main() {
int year;
cout << "Enter a year: ";
cin >> year;
if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {
cout << year << " is a leap year." << endl;
} else {
cout << year << " is not a leap year." << endl;
}
return 0;
}
/tmp/JNYb7egO5I.o
Enter a year: 5
5 is not a leap year.

Q4:


main.cpp
Run
Output
Clear
#include <iostream>
using namespace std;
int main() {
float gpa;
int attendancePercentage;
cout << "Enter GPA: ";
cin >> gpa;
cout << "Enter attendance percentage: ";
cin >> attendancePercentage;
if (gpa >= 3.5 && attendancePercentage >= 80) {
cout << "Congratulations! You are eligible for the scholarship." << endl;
} else {
cout << "Sorry, you are not eligible for the scholarship." << endl;
}
return 0;
}
/tmp/.JNYb7egO5I.o
Enter GPA: 5
Enter attendance percentage: 5
Sorry, you are not eligible for the scholarship.

Q5:


main.cpp
Run
Output
Clear
#include <iostream>
using namespace std;
//home tasks-manual.2
int main()
{
char letter;
//taking user input
cout << "Enter a letter:\n";
cin>> letter;
if(letter=='a' || letter=='e' || letter=='i' ||
letter=='o'|| letter == 'u'){
//Using OR Logic operator
cout << "The letter is a vowel";
}
else cout << "The letter is a consonant";
return 0;
}
/tmp/NmWoS2XRCV.o
Enter a letter:
t
The letter is a consonant