Lab task no.1

Draw a program for making grades of the class students.

```
#include <iostream>
Using namespace std;

Int main()
{
   // Declare a variable to store the student's score
   Int score;

   // Prompt the user to enter the score
   Cout << "Enter your score: ";
   Cin >> score;
```

```cpp
    // Check if the score is valid (between 0 and 100)

    If (score >= 0 && score <= 100)

    {

        // Assign a grade based on the predefined criteria using
logical operators

        If (score >= 90)

        {

            Cout << "Your grade is A";

        }

        Else if (score >= 75)

        {

            Cout << "Your grade is B";

        }

        Else if (score >= 60)

        {

            Cout << "Your grade is C";

        }

        Else if (score >= 45)

        {

            Cout << "Your grade is D";
```

```cpp
        }

    Else

    {

        Cout << "Your grade is F";

    }

}

Else

{

    // Display an error message if the score is invalid

    Cout << "Invalid score. Please enter a number between 0 and 100.\n";

}

    return 0;

}
```

```
Enter your score: 45
Your grade is D

...Program finished with exit code 0
Press ENTER to exit console.█
```

Task no.2

#include <iostream>

Using namespace std;

Int main()

{

```cpp
Int n;

Cout << "Enter an integer: ";

Cin >> n;



If (n % 2 == 0 && n % 5 == 0)

{

   Cout << "your integer is both even and divisible by 5";

}

Else

{

   Cout << "your integer is not both even and divisible by 5";

}


Return 0;

}
```
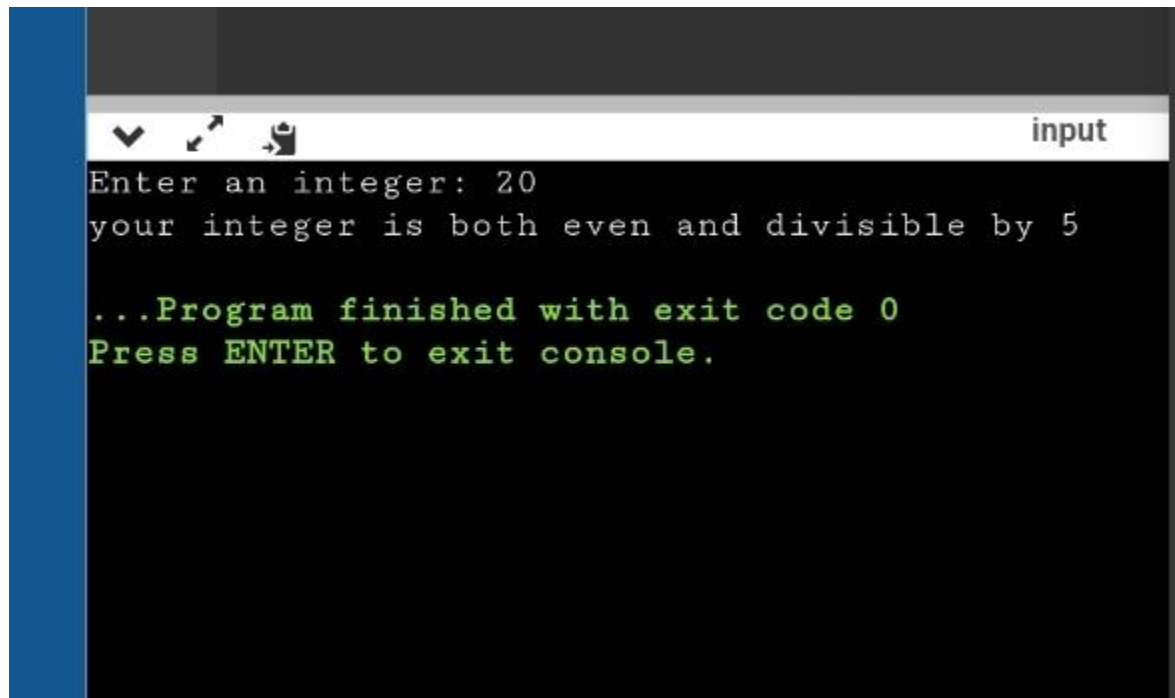
```
Enter an integer: 20
your integer is both even and divisible by 5

...Program finished with exit code 0
Press ENTER to exit console.
```

Task no.3

```cpp
#include <iostream>

using namespace std;

int main()
{
    float gpa;
    float attendance;
```

```cpp
    cout << "Enter your GPA: ";

    cin >> gpa;

    cout << "Enter your attendance percentage: ";

    cin >> attendance;


    if (gpa >= 3.5 && attendance >= 80)

    {

        cout << "Congratulations! You are eligible for a scholarship.";

    }

    else

    {

        cout << "Sorry, you are not eligible for a scholarship.";

    }


    return 0;
```
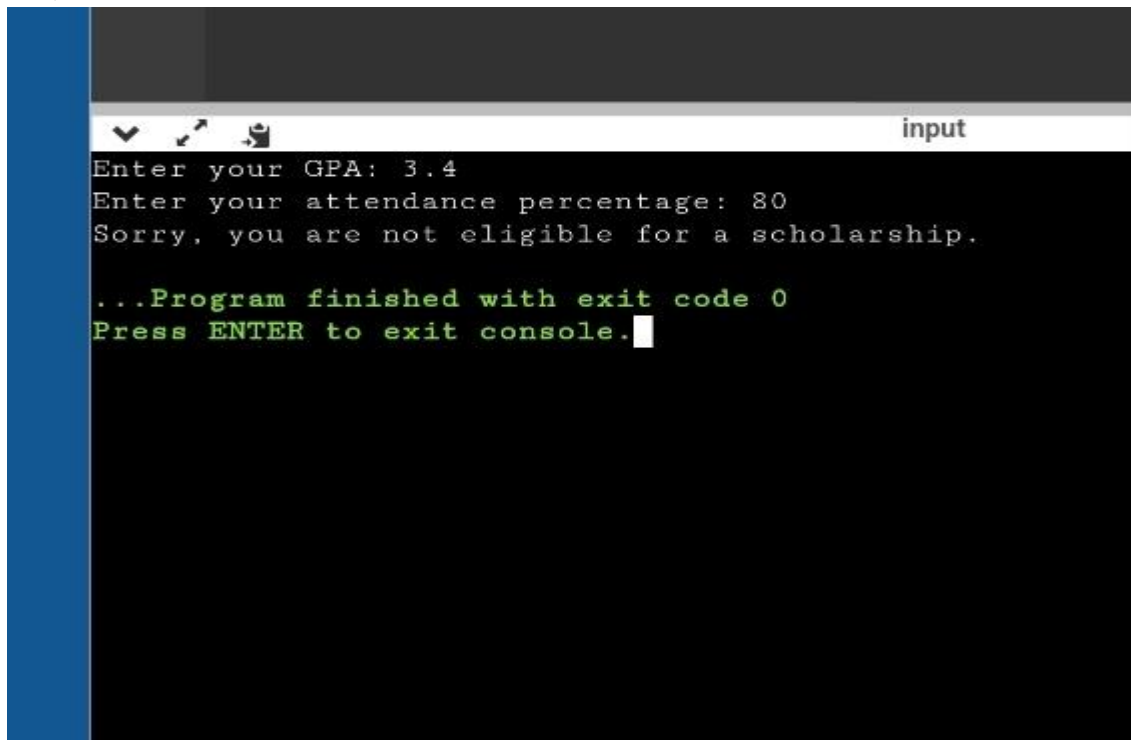
```
                                                        input
Enter your GPA: 3.4
Enter your attendance percentage: 80
Sorry, you are not eligible for a scholarship.

...Program finished with exit code 0
Press ENTER to exit console.
```

```cpp
}
```

Task no.4

```cpp
#include <iostream>
Using namespace std;

Int main()
{
    Char c;
    Cout << "Enter a character: ";
    Cin >> c;



    If (c == 'a' || c == 'e' || c == 'I' || c == 'o' || c == 'u' ||
        C == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U')
    {
        Cout << c <<"is a vowel." << endl;
    }
    Else
```

```
{

    Cout << c << " is a consonant." << endl;

}


    Return 0;

}
```



```
Enter a character: a
 is a vowel.


..Program finished with exit code 0
Press ENTER to exit console.
```