



**Submitted by:**

Manahil Shahzad

**Roll no:**

466695

**Class:**

ME-15 (B)

**Computer programmingC++**

## TASK 1

```
#include <iostream>
using namespace std;
int main(){
    int grade;
    cout << "Enter score: ";
    cin>> grade;
    if (grade >= 90 && grade <=100){
        cout << "A";
    }
    else if (grade >= 75 && grade < 90){
        cout << "B";
    }
    else if (grade >= 60 && grade < 75){
        cout << "C";
    }
    else if (grade >= 45 && grade < 60){
        cout << "D";
    }
    else if (grade >= 0 && grade < 45){
        cout << "F";
    }
    else {
        cout << " Invalid score.";
    }
    return 0;}
```

/tmp/oxMGtvb1Xr.o

Enter score: 70

d

## TASK 2

The screenshot shows the Programiz Online C++ Compiler interface. The code in `main.cpp` is as follows:

```
1 #include <iostream>
2 using namespace std;
3 int main(){
4     int num;
5     cout << "Enter number: ";
6     cin >> num;
7     if (num % 2 == 0){
8         if (num % 5 == 0){
9             cout << "Even and divisible by 5.";
10        }
11        else{
12            cout << "Even and not divisile by 5.";
13        }
14    }
15    else if (num % 5 == 0){
16        cout << "Odd and divisible by 5.";
17    }
18    else {
19        cout << "Odd and not divisible by 5.";
20    }
21    return 0;
22 }
```

The output shows the following text:

```
/tmp/oxMGtub1Xr.o
Enter number: 43
Odd and not divisible by 5.
```

## TASK 3

The screenshot shows the Programiz Online C++ Compiler interface. The code in `main.cpp` is as follows:

```
1 #include <iostream>
2 using namespace std;
3 int main(){
4     double attendance, gpa;
5     cout << "Enter gpa and attendance respectively: ";
6     cin >> gpa >> attendance;
7     if (gpa >= 3.5){
8         if (attendance >= 80){
9             cout << "Eligible for scholarship.";
10        }
11    }
12    else {
13        cout << "Not eligible for scholarship.";
14    }
15    return 0;
16 }
```

The output shows the following text:

```
/tmp/oxMGtub1Xr.o
Enter gpa and attendance respectively: 2.8 82
Not eligible for scholarship.
```

## TASK 4

The screenshot shows the Programiz C++ Online Compiler interface. The code in `main.cpp` is as follows:

```
1 #include <iostream>
2 using namespace std;
3 int main(){
4     double attendance, gpa;
5     cout << "Enter gpa and attendance respectively: ";
6     cin >> gpa >> attendance;
7     if (gpa >= 3.5){
8         if (attendance >= 80){
9             cout << "Eligible for scholarship.";
10        }
11    }
12    else {
13        cout << "Not eligible for scholarship.";
14    }
15    return 0;
16 }
```

The output shows the program execution with input values 2.8 and 82, resulting in the message: "Not eligible for scholarship."

## TASK 5

The screenshot shows the Programiz C++ Online Compiler interface. The code in `main.cpp` is as follows:

```
1 #include <iostream>
2 using namespace std;
3 int main(){
4     char letter;
5     cout << "Input letter: ";
6     cin >> letter;
7     if (letter == 'a' || letter == 'e' || letter == 'i' || letter == 'o' || letter == 'u'){
8         cout << "It's a vowel.";
9     }
10    else {
11        cout << "Not a vowel.";
12    }
13    return 0;
14 }
```

The output shows the program execution with input 'v', resulting in the message: "Not a vowel."

