ASSIGNMENT # 02

ABDUL MOIZ 464834 SECTION : B

```
#include <iostream>
using namespace std;
int main()
{
 Question no. 1
double score;
cout << "Student Score = ";
cin >> score;
if (score >= 90 && score <= 100)
{
cout << "A-Grade";
}
else if (score >= 75 && score < 90)
{
cout << "B-Grade";
}
else if (score >= 60 && score < 75)
{
cout << "C-Grade";
}
else if (score >= 45 && score < 60)
{
cout << "D-Grade";
}
else if (score >= 0 && score < 45)
{
cout << "F-Grade";
```

```
}
return 0;
}
{
 Question no. 2
int number;
cout << "Enter Number : ";
cin >> number;
if (number % 2 == 0)
{
if (number % 5 == 0)
{
cout << "The Number is both even and divisible by 5";
}
else if (number % 5 != 0)
{
cout << "The number is even but it is not divisible by 5";
}
}
else if (number % 2 != 0 && number % 5 == 0)
{
cout << "The number is not even but it is divisible by 5";
}
else if (number % 2 != 0 && number % 5 == 0)
{
cout << "The number is not even but it is divisible by 5";
}
else
{
```

```
cout << "The Number is neither even nor divisible by 5";
}
return 0;
}
{ // Question no. 3
int year;
cout << "Enter year : ";
cin >> year;
if (year % 400 == 0)
{
cout << "It is a leap year";
}
else if (year % 100 == 0)
{
cout << "It is not a leap year";
}
else if (year % 4 == 0)
{
cout << "It is a leap year";
}
else
{
cout << "It is not a leap year";
}
return 0;
}
{ Question no.4
double GPA, attendance,classes;
cout << "Enter GPA : ";
```

```
cin >> GPA;
cout << "no. of classes attended by a student : ";
cin >> classes;
attendance = (classes / 80) * 100;
cout <<"Attendance of a student is " << attendance << "%" << endl;
if ((GPA >= 3.5 && GPA <= 4.0) && attendance >= 80)
{
cout << "The student is eligible for the Scholarship";
}
else
{
cout << "The student is not eligible for the Scholarship";
}
return 0;
}
{ // Question no. 5
char a;
cout << "Enter a alphabet : ";
cin >> a;
if (a == 'a' || a == 'e' || a == 'i' || a == 'o' || a == 'u')
{
cout << "The alphabet is a vowel";
}
else if (a == 'q' || a == 'w' || a == 'r' || a == 't' || a == 'y' || a == 'p' || a == 's' || a == 'd' || a == 'f' || a == 'g' || a == 'h' || a == 'j' || a == 'k' || a == 'l' || a == 'z' || a == 'x' || a == 'c' || a == 'v' || a == 'b' || a == 'n' || a == 'm')
{
cout << "The alphabet is a consonant";
}
```

```
else
{
cout << "It is neither a vowel nor a consonant";

}
return 0;}
```