//FAISAL RASOOL QAZI

//ROLL NUM: 455689

//ME 15 SEC-B

//FOP 02 HOME ASSIGNMENT

// TASK-01

#include <iostream>

using namespace std;

int main(){

int marks; //defining variable

cout<<"Enter your marks: ";

cin>>marks; //entering marks

if(marks>=90 && marks<=100) // assigning marks for A grade

cout<<"You got A grade!";

else if //applying conditions

(marks>=75 && marks<=90) //assigning marks for B grade

cout<<"You got B grade!";

else if //applying conditions

(marks>=60 && marks<75) //assigning marks for C grade

cout<<"You got C grade!";

else if //applying conditions

(marks>=45 && marks<=60) //assigning marks for D grade

cout<<"You got D grade!";

else if //applying conditions

(marks>=0 && marks<=45) //assigning marks for E grade

cout<<"You got F grade!";

return 0;

}

// // TASK-02

#include <iostream>

using namespace std;

int num; //defining variables

cout << "Enter an integer: " <<endl;

cin >> num; //entering integer

if (num % 2 == 0 && num % 5 == 0) { //applying condition

cout<<" It is both even and divisible by 5 !" << endl;

} else {

cout<< "It is not even but is divisible by 5 !" << endl;

} //taking output

}

// // TASK-03

#include <iostream>

using namespace std;

int year; //defining variables

cout << "Enter a year : "<<endl; //taking output

cin >> year; //entering year

if (year % 4 == 0) { //entering conditions

cout<<"It is a leap year !"; //setting outputs

} else {

cout<<"It is not a leap year !";

}

}

// // // TASK-04

#include <iostream>

using namespace std;

double GPA, attendance; //defining variables

cout<<"Enter your GPA : "; //taking output

cin>>GPA;

cout<<"Enter your attendence percentage : ";

cin>>attendance; //entering input

if (GPA>=3.5 && attendance>=80){ //setting conditions

cout<<"You are eligible for the scholarship!";

}

else{

cout<<"You are not eligible for the scholarship!";

} //applying condition

}

// TASK-05

#include <iostream>

using namespace std;

int main(){

char ch; //defining variables

cout<<"Insert a character: ";

cin>>ch; //entering character

if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u'|| //defining alphabets

ch=='A'||ch=='E'||ch=='I'||ch=='O'||ch=='U'){

cout<<"The character is a vowel !";

}

else{

cout<<"The character is a consonant !"; //applying condition

}

}