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**DEPARTMENT OF MECHANICAL ENGINEERING  
  
Subject: Fundamentals of Programming  
Assignment No. 2  
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Semester No. 1  
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**FIRST PROGRAM**

#include<iostream>

using namespace std;

int main(){

float A;

cout<<"ENTER YOUR MARKS ASSIGNED IN EXAMINATION."<<endl;

cin>>A;

if(90<=A && 100>=A){

cout<<"GRADE A";

}

if(75<=A && 90>=A){

cout<<"GRADE B";

}

if(60<=A && 75>=A){

cout<<"GRADE C";

}

if(45<=A && 60>=A){

cout<<"GRADE D";

}

if(0<=A && 45>=A){

cout<<"GRADE E";

}

}

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**SECOND PROGRAM**

#include<iostream>

using namespace std;

int main(){

float A,B;

cout<<"ENTER YOUR GPA ."<<endl;

cin>>A;

cout<<"ATTENDANCE"<<endl;

cin>>B;

if(A>=3.5 && B>=80 ){

cout<<"YOU ARE ELIGIBLE FOR THIS SCHOLARSHIP.";

} else {

cout<<"YOU ARE NOT ELIGIBLE FOR THIS SCHOLARSHIP";

}

}

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**THIRD PROGRAM**

#include<iostream>

using namespace std;

bool isvowel(char x) {

return (x == 'a' || x == 'e' || x == 'i' || x == 'o' || x == 'u');

}

int main(){

char x;

cout<<"ENTER ANY ALPHABET."<<endl;

cin>>x;

if (isvowel(x)){

cout<<"IT IS VOWEL.";

} else {

cout<<"IT IS CONSONANT.";

}

return 0;

}

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**FORTH PROGRAM**

#include<iostream>

using namespace std;

bool isLeapyear(int year){

return (year % 4 == 0 && year % 100 != 0) || year % 400 == 0;

}

int main(){

int year ;

cout<<"ENTER ANY YEAR YOU WANT TO CHECK IF IT IS LEAP YEAR OR NOT :"<<endl;

cin>>year ;

if(isLeapyear(year)){

cout<<"IT IS LEAP YEAR.";

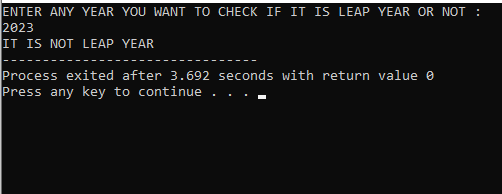
} else {

cout<<"IT IS NOT LEAP YEAR";

}

return 0;

}



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**FIFTH PROGRAM**

#include<iostream>

using namespace std;

int main(){

int a;

cout<<"ENTER ANY NUMBER."<<endl;

cin>>a;

if(a%2==0 && a%5==0){

cout<<"IT IS BOTH,EVEN AND DIVISIBLE BY 5.";

}

if(a%2==0 && a%5!=0){

cout<<"IT IS EVEN BUT NOT DIVISIBLE BY 5.";

}

if(a%2!=0 && a%5==0){

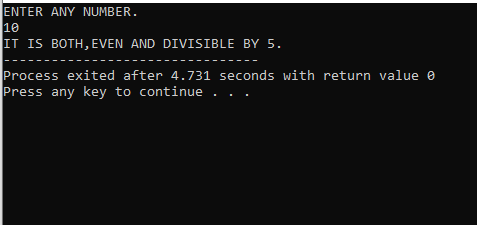
cout<<"IT IS DIVISIBLE BY 5 BUT NOT EVEN.";

} if(a%2!=0 && a%5!=0){

cout<<"IT IS ODD NUMBER.";

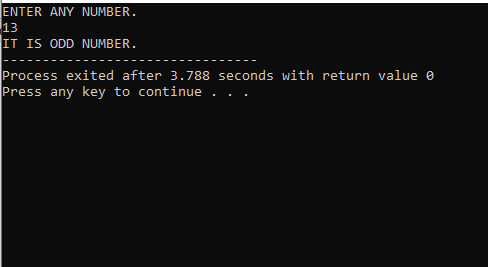
}

}



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