ASSIGHNMENT 2

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```cpp
#include<iostream>

#include<cmath>

using namespace std;


//PROJECT 1
int main(){

        double g;                                    //defining variables and

        cout<<"ENTER YOUR MARKS="<<endl;          //and taking input from user

        cin>>g;

        if(g>90||g==90&&g<100||g==100)           //applying if condition on marks that

        {                                            //mark=90-100    grade=A

                cout<<"A";

        }

        else if(g>75||g==75&&g<90)              //mark=75-90       grade=B

        {

                cout<<"B";

        }

        else if(g>60||g==60&&g<75)             //mark=60-75      grade=C

        {

                cout<<"C";
```

```cpp
        }

        else if(g>45||g==45&&g<60)                    //mark=45-60        grade=D

        {

                cout<<"D";

        }

        else

        {

                cout<<"F";                              //mark<45       grade=F

        }

}
```
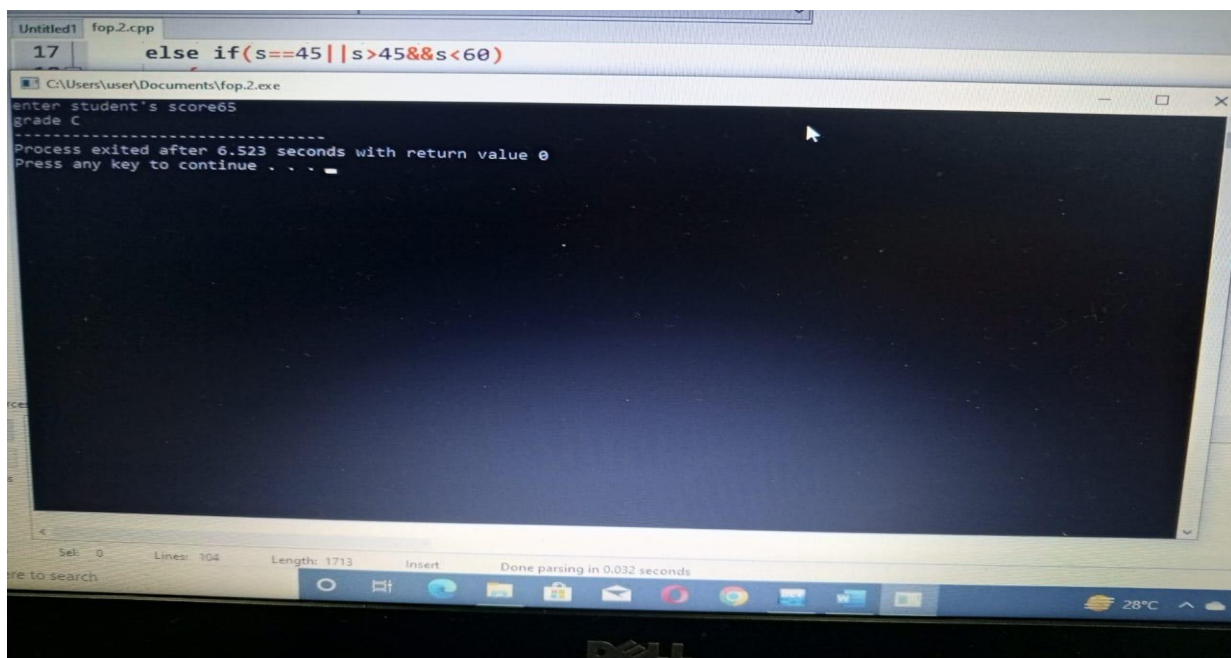


```
Untitled1  fop.2.cpp
 17 |          else if(s==45||s>45&&s<60)
```

```
C:\Users\user\Documents\fop.2.exe
enter student's score65
grade C
------------------------------------
Process exited after 6.523 seconds with return value 0
Press any key to continue . . . _
```

```
Sel  0      Lines: 104      Length: 1713      Insert      Done parsing in 0.032 seconds
```

//PROJECT 2

```cpp
int main(){

int integer;                                          //defining variables and
```

```cpp
cout<<"ENTER THE INTEGER"<<endl;                          //and taking input from user

cin>>integer;

if((integer/2)||(integer/5)==1)                    //applying if condition on integers that

{                                                           //if it is divisible by 2 and 5

        cout<<"IT IS DIVISIBLE ";

}

else

{

        cout<<"NOT DIVISIBLE";                     // if not divisible then print it is not divisible

}

}
```


//PROJECT 3

int main(){

```cpp
int y;                                    //defining variables and

cout<<"YEAR="<<endl;                      //and taking input from user

cin>>y;

if(y%4==0&&y%100!=0||y%400==0)            //applying if condition on integers that

{                                         //if it is divisible by 4 and not divisible by 100, it is
leap year

        cout<<"IT IS A LEAP YEAR";        //or if its disible by 400

}

else

{

        cout<<"NOT A LEAP YEAR";

}

}
```



```cpp
//PROJECT 4

int main(){

float GPA,a;                                          //defining variables and
```

```cpp
cout<<" ENTER YOUR GPA AND ATTEDENCE"<<endl;          //and taking input from user

cin>>GPA>>a;

if(GPA>3.5||GPA==3.5&&a>80||a==80)                    //applying if condition on integers that

{                                                     // valid for scholarship if GPA is equal or
greater than

        cout<<"ELIGIBLE FOR SCHOLARSHIP";             //3.5 and attendence must atleast 80%

}

else

{

        cout<<"NOT ELIGIBLE FOR SCHOLARSHIP";    //else not valid for scholarship

}

}
```
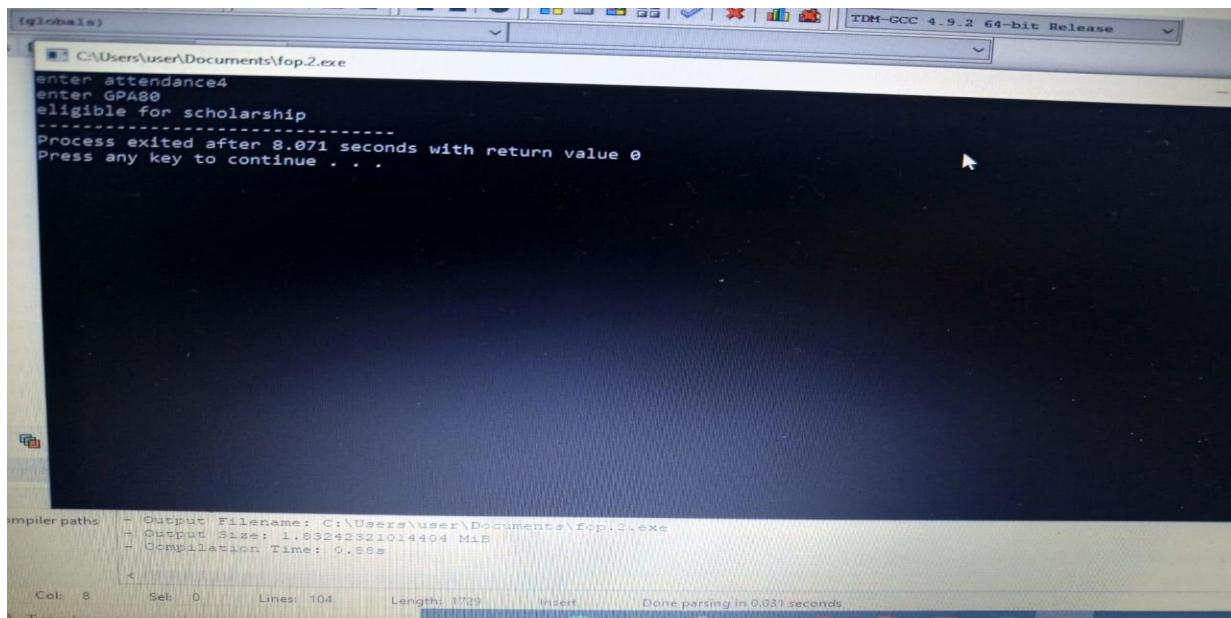


```cpp
//PROJECT 5

int main(){

char A;                                              //defining variables and
```

```cpp
cout<<"ALPHABET="<<endl;                              //and taking input from user

cin>>A;

if(A=='a'||A=='e'||A=='i'||A=='o'||A=='u')            //applying if condition on integers that if alphabets
{                                                      //are vowel print vowel if not print
consonents.

        cout<<"IT IS VOWEL";

}

else

{

        cout<<"ITS CONSONENT";

}

}
```

C:\Users\user\Documents\fop.2.exe
```
enter the charactera
it is a vowel
-----------------------------------
Process exited after 3.831 seconds with return value 0
Press any key to continue . . .
```

source:

aths

Sel: 382   Lines: 104   Length: 1705   Insert   Done parsing in 0.031 seconds