



**ASSIGNMENT # 02**

**TOPIC: HOME TASK OF COMP PROGRAMMING  
BY**

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**SEC: A**

SUBMITTED TO : M AFFAN TARIQ

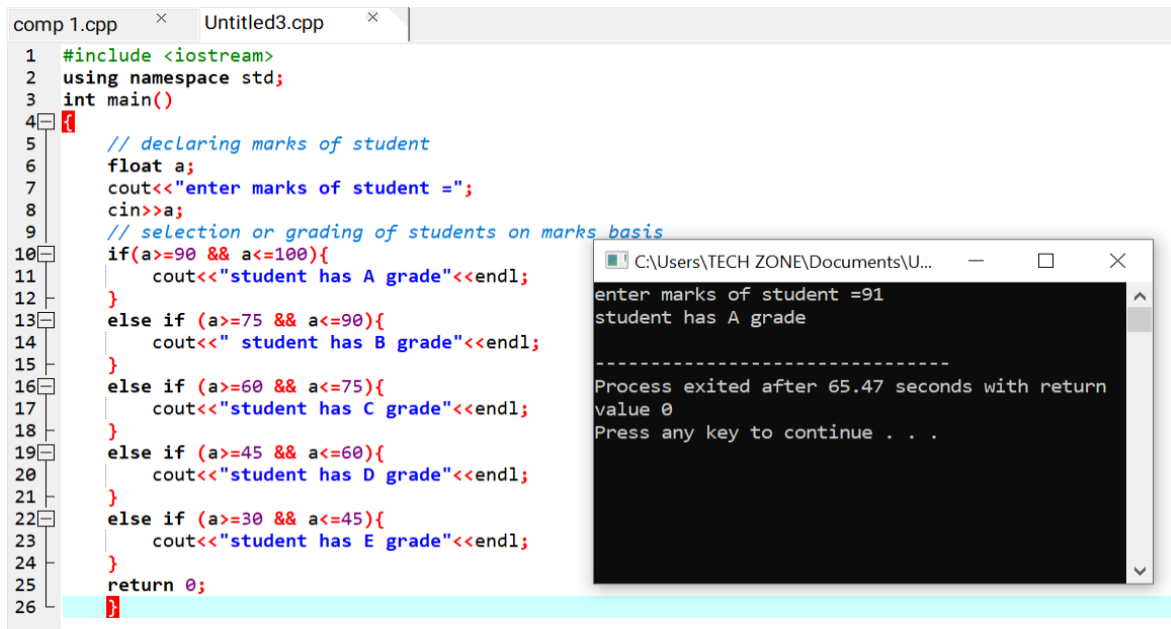
COURSE : PROGRAMMING LAB

Date : 9/10/2023

**Department of Mechanical Engineering**

**Nust**

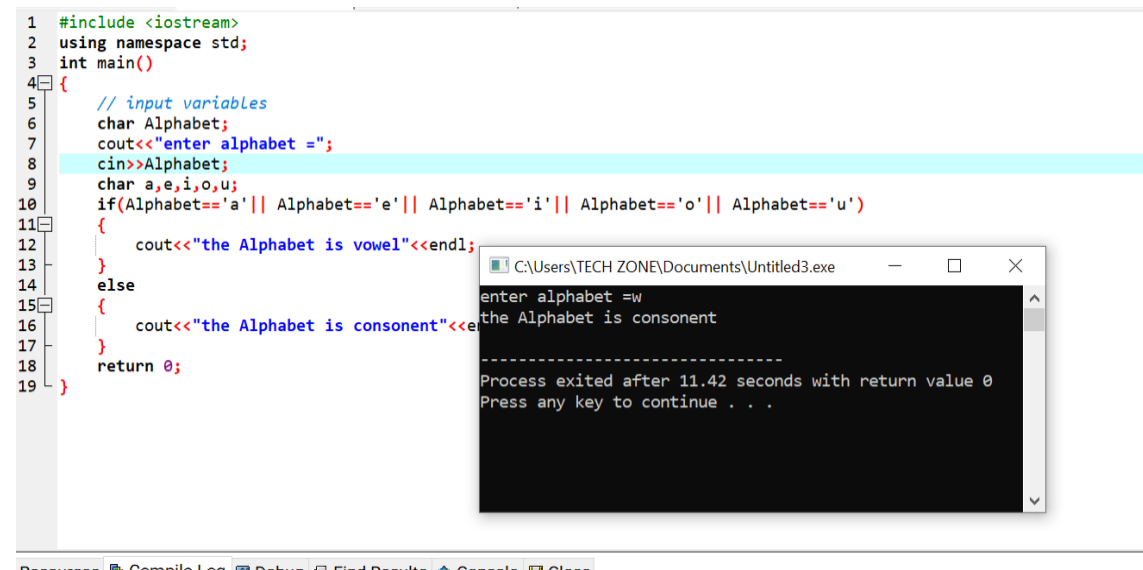
## TASK:01 GRADING OF STUDENT



```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     // declaring marks of student
6     float a;
7     cout<<"enter marks of student =";
8     cin>>a;
9     // selection or grading of students on marks basis
10    if(a>=90 && a<=100){
11        cout<<"student has A grade"<<endl;
12    }
13    else if (a>=75 && a<=90){
14        cout<<" student has B grade"<<endl;
15    }
16    else if (a>=60 && a<=75){
17        cout<<"student has C grade"<<endl;
18    }
19    else if (a>=45 && a<=60){
20        cout<<"student has D grade"<<endl;
21    }
22    else if (a>=30 && a<=45){
23        cout<<"student has E grade"<<endl;
24    }
25    return 0;
26 }
```

enter marks of student =91  
student has A grade  
-----  
Process exited after 65.47 seconds with return value 0  
Press any key to continue . . .

## Task 2: separate vowels and consonants

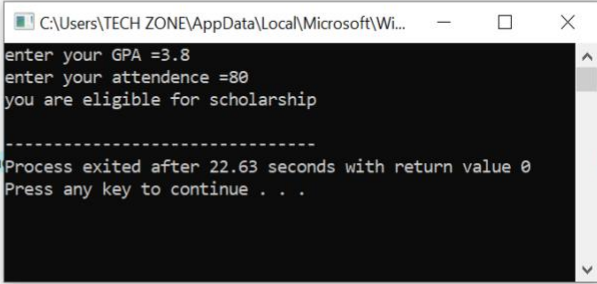


```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     // input variables
6     char Alphabet;
7     cout<<"enter alphabet =";
8     cin>>Alphabet;
9     char a,e,i,o,u;
10    if(Alphabet=='a' || Alphabet=='e' || Alphabet=='i' || Alphabet=='o' || Alphabet=='u')
11    {
12        cout<<"the Alphabet is vowel"<<endl;
13    }
14    else
15    {
16        cout<<"the Alphabet is consonant"<<endl;
17    }
18    return 0;
19 }
```

enter alphabet =w  
the Alphabet is consonant  
-----  
Process exited after 11.42 seconds with return value 0  
Press any key to continue . . .

### Task 3: scholarship criterea

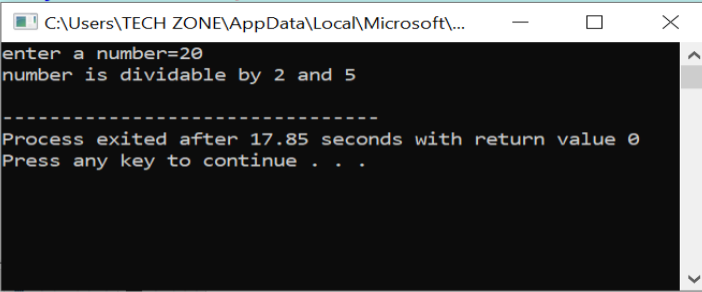
```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     // checking for scholarship criterea
6     float GPA, attendance;
7     cout<<"enter your GPA = ";
8     cin>>GPA;
9     cout<<"enter your attendance = ";
10    cin>>attendance;
11    // check either you are eligible or not
12    if(GPA>=3.5 && attendance>=75){
13        cout<<"you are eligible for scholarship"<<endl;
14    }
15    else
16    {
17        cout<<"you are not eligible for scholarship"<<endl;
18    }
19 }
```



```
C:\Users\TECH ZONE\AppData\Local\Microsoft\Wi...
enter your GPA =3.8
enter your attendance =80
you are eligible for scholarship
-----
Process exited after 22.63 seconds with return value 0
Press any key to continue . . .
```

### Task 4:to check a number if it is dividable by 5 and 2

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     // enter number to check whether its dividable by 2 and 5 or not
6     int a;
7     cout<<"enter a number=";
8     cin>>a;
9     if(a%2==0 && a%5==0){
10        cout<<"number is dividable by 2 and 5"<<endl;
11    }
12    else
13    {
14        cout<<"number is not dividable by 2 and 5"<<endl;
15    }
16    return 0;
17 }
```

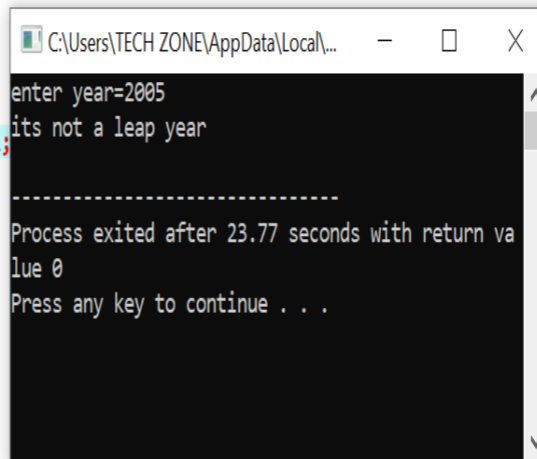


```
C:\Users\TECH ZONE\AppData\Local\Microsoft\...
enter a number=20
number is dividable by 2 and 5
-----
Process exited after 17.85 seconds with return value 0
Press any key to continue . . .
```

sources Compile Log Debug Find Results

## Task 5: Find leap year

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     // checking Leap year
6     int year;
7     cout<<"enter year=";
8     cin>>year;
9     //whether year is Leap year or not
10    if(year%4==0){
11        cout<<"its a is leap year"<<endl;
12    }
13    else
14    {
15        cout<<"its not a leap year"<<endl;
16    }
17    return 0;
18 }
```



A screenshot of a Windows command prompt window. The title bar shows the path "C:\Users\TECH\_ZONE\AppData\Local\...". The window contains the following text: "enter year=2005", "its not a leap year", a separator line of dashes, "Process exited after 23.77 seconds with return value 0", and "Press any key to continue . . .".