Computer System and Programming

by

SHERAZ KHAN (475811) Sec: A



Subject: Lab work

Submitted to: Muhammad Afghan

Date: 3/10/2023

DEPARTMENT OF MECHANICAL ENGINEERING
NATIONAL UNIVERSITY OF SCIENCE
AND TECHNOLOGY

Grade the numbers

```
#include<iostream>
 1
   using namespace std;
 2
    int main()
 3
4 □ {
         //declering veriables
 5
 6
         float a;
 7
         cout<<"Enter the marks of student: ";</pre>
8
         cin>>a:
         //Grading numbers
9
10
         if(a>=90 && a<=100)
11
         {cout<<"Student got A grade"<<endl;}</pre>
         else if (a>=75 && a<=100)
12
         {cout<<"student got B grade"<<endl;}</pre>
13
14
         else if (a>=60 && a<=75)
         {cout<<"student got C grade"<<endl;}</pre>
15
16
         else if (a>=45 && a<=60)
         {cout<<"student got D grade"<<endl;}</pre>
17
         else if (a>=0 && a<=45)
18
19
         {cout<<"student got F grade"<<endl;}</pre>
20
         return 0;
21 <sup>L</sup> }
```

```
Enter the marks of student: 67
student got C grade
-----
Process exited after 4.293 seconds with return value 0
Press any key to continue . . . _
```

Number divisible by 2 and 5

```
#include<iostream>
   using namespace std;
    int main()
 4 □ {
 5
        //declering veriables
 6
        int x;
        cout<<"enter the value of number: ";</pre>
 7
 8
        cin>>x;
9
        if(x\%2==0 \&\& x\%5==0)
10
        {cout<<"the number is devisible by both 2 and 5"<<endl;}
11
        else
12
        {cout<<"the number is not devisible by both 2 and 5"<<endl;}</pre>
13
        return 0;
14 <sup>∟</sup> }
15
```

```
enter the value of number: 49
the number is not devisible by both 2 and 5
------
Process exited after 5.964 seconds with return value 0
Press any key to continue . . .
```

Checking leap year

```
#include<iostream>
 2 using namespace std;
 3
    int main()
 4 □ {
        //declering veriables
 5
 6
        int year;
 7
        cout<<"enter the year: ";</pre>
 8
        cin>>year;
        //checking if it is leap year or not
 9
        if (year%4==0)
10
        {cout<<"this is a leap year"<<endl;}</pre>
11
12
        else
13
        {cout<<"this is not a leap year"<<endl;}</pre>
14
        return 0;
15 L
```

```
enter the year: 2024
this is a leap year
-----
Process exited after 10.61 seconds with return value 0
Press any key to continue . . .
```

Scholarship for students

```
1 #include<iostream>
    using namespace std;
3 int main()
4 □ {
        //declering veriables
 5
6
        float GPA, Attendence;
7
        cout<<"enter the GPA: ";
8
        cin>>GPA:
        cout<<"enter the attendence: ";</pre>
9
        cin>>Attendence:
10
        //checking the student is elligible for scholarship
11
12
        if (GPA>=3.5 && Attendence>=80)
        {cout<<"the student is elligible for scholarship"<<endl;}</pre>
13
14
        else
        {cout<<"the student is not elligible for scholarship"<<endl;}</pre>
15
        return 0;
16
17 <sup>⊥</sup> }
```

```
enter the GPA: 3.6
enter the attendence: 95
the student is elligible for scholarship
-----
Process exited after 14.3 seconds with return value 0
Press any key to continue . . . _
```

Separating vowels and consonants

```
1 #include<iostream>
 2 using namespace std;
 3 int main()
 4 □ {
        //declering veriables
 5
 6
        char alphabet;
        cout<<"enter the alphabet: ";</pre>
 7
 8
        cin>>alphabet;
        if (alphabet=='a'||alphabet=='e'||alphabet=='i'||alphabet=='o'||alphabet=='u')
        {cout<<"the alphabet is vowel"<<endl;}
10
11
        else
12
        {cout<<"the alphabet is consonent"<<endl;}</pre>
13
        return 0;
14 <sup>L</sup>
15
16
```

```
enter the alphabet: h
the alphabet is consonent

-----
Process exited after 2.345 seconds with return value 0
Press any key to continue . . .
```