## Lab manual 2

Submitted to: M. Affan

Name: Muhammad Bin Ahmad

ME-15(A)

Roll No: 480779

```
#include <iostream>
using namespace std;
             {
int main ()
        int age;
        cout<<"Input the age of the person."<<endl;</pre>
        cin>> age;
        if (age>0 && age<110) {
                if (age>=18) {
                        cout<<"Person is eligible to vote."<<endl;</pre>
                }
                else {
                        cout<<"Person is not eligible to vote."<<endl;
                }
        }
                {
        else
        cout<<"Invalid input.";</pre>
                }
                }
         end of task 1
```

```
#include <iostream>
using namespace std;
int main () {
  int num;
cout<<"Input any number."<<endl;
cin>> num;
if (num>=10 && num<=50) {
      cout<<"The number falls within the range.";
}
else {</pre>
```

```
}
       }
       end of task 2
Input any number.
The number falls within the range.
Process exited after 4.632 seconds with return value 0
Press any key to continue . . .
Input any number.
Number is not within the range.
Process exited after 4.734 seconds with return value 0
Press any key to continue . . . _
       #include <iostream>
       using namespace std;
       int main ()
                    {
       int a,b;
       cout<<"Enter values for two integers a and b respectively."<<endl;
       cin>>a>>b;
       if (a==b) {
              cout<<"Both values are equal which is "<<a<<endl;</pre>
       }
       else if (a>b) {
              cout<<"The larger value is of a which is "<<a<<endl;</pre>
```

cout<<"Number is not within the range.";</pre>

```
}
      else if (a<b) {
             cout<<"The larger value is of b which is "<<b<<endl;</pre>
      }
      }
End of task 3
Enter values for two integers a and b respectively.
The larger value is of a which is 6
Process exited after 2.012 seconds with return value 0
Press any key to continue . . . _
Enter values for two integers a and b respectively.
The larger value is of b which is 7
Process exited after 1.295 seconds with return value 0
Press any key to continue . . . _
Enter values for two integers a and b respectively.
Both values are equal which is 7
Process exited after 0.7705 seconds with return value 0
Press any key to continue . . .
      #include <iostream>
      using namespace std;
      int main () {
```

```
float score1, score2, score3, sum, average;
int pass_grade=40;
cout<<"Enter the scores for the 3 exams."<<endl;
cin>>score1>>score2>>score3;
if (score1>=0 && score1<=100 && score2>=0 && score2<=100 && score3>=0 && score3<=100)
{
sum = score1 + score2 + score3;
average = sum/3;
if (average>= pass_grade) {
       cout<<"Pass.";
}
else {
       cout<<"Fail.";
}
}
else {
       cout<<"Invalid input.";</pre>
}
}
end of task 4
```

```
Enter the scores for the 3 exams.

45
65
32
Pass.
-----
Process exited after 6.595 seconds with return value 0
Press any key to continue . . .

the scores for the 3 exams.
```

```
Enter the scores for the 3 exams.
10
10
10
Fail.
Process exited after 4.292 seconds with return value 0
Press any key to continue . . .
Enter the scores for the 3 exams.
139
231
125
Invalid input.
Process exited after 5.851 seconds with return value 0
Press any key to continue . . .
Enter the scores for the 3 exams.
-44
54
32
Invalid input.
```

Process exited after 4.565 seconds with return value 0

Press any key to continue . . . \_