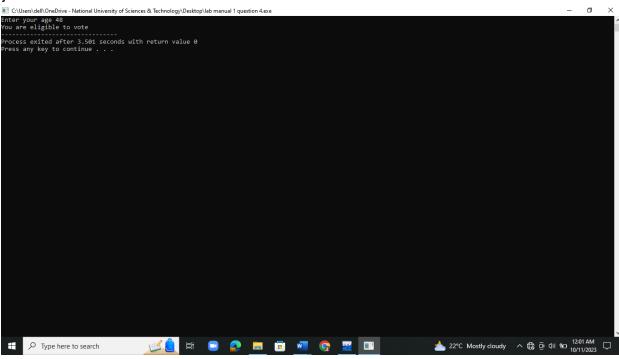
Lab Manual 2

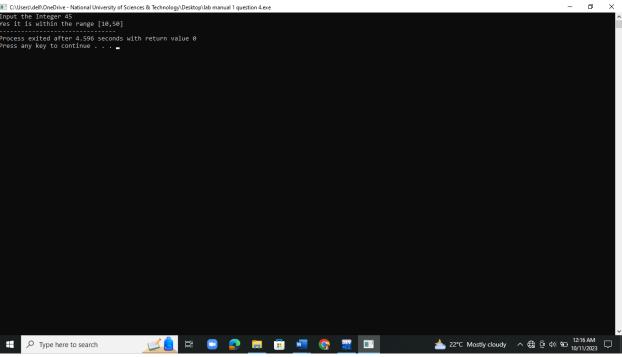
Question 1:

```
1. #include <iostream>
2. using namespace std;
3. int main (){
4.
          double age;
          cout<<"Enter your age";</pre>
5.
6.
          cin>>age;// input from the user
          if(age>=18){ //specifying the conditions
7.
                 cout<<"You are eligible to vote";
8.
9.
          else if(age<=0){
10.
                 cout<<"Invalid age please re-enter";</pre>
11.
12.
13.
          else {
14.
                 cout<<"You are not eligible to vote";</pre>
15.
16.
          }
17.}
```



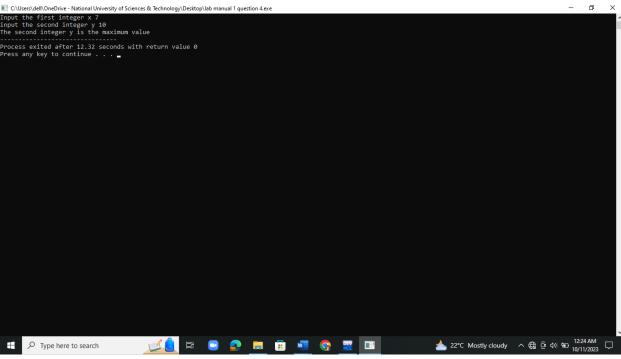
Question 2:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
      int x; // initialising
4.
      cout<<"Input the Integer";</pre>
5.
6.
      cin>>x;
      if(x \ge 10\&x < =50){ // specifying the conditions
7.
      cout<<"Yes it is within the range [10,50]";
8.
9. }
10.
11.
      else {
      cout<<"Not within the range";
12.
13.
14.
      }
15.}
```



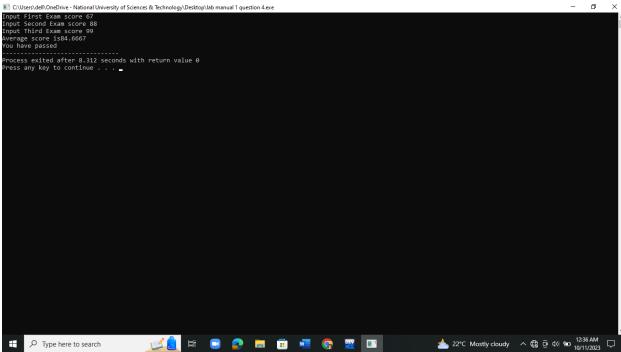
Question 3:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
4.
          int x,y;
          cout<<"Input the first integer x";</pre>
5.
6.
          cin>>x;
          cout<<"input the second integer y";
7.
8.
          cin>>y;
          if(x>y){}
9.
                 cout<<"The first interger x is the maximum value";</pre>
10.
11.
          }
          else {
12.
                 cout<<"The second integer y is the maximum value";</pre>
13.
14.}
15.}
```



Question 4:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
4.
         float x,y,z,A; // initialising
         cout<<"Input First Exam score"; // information required from the user
5.
6.
         cin>>x;
7.
         cout<<"Input Second Exam score";
8.
         cout<<"Input Third Exam score";</pre>
9.
10.
         cin>>z;
         A = (x+y+z)/3;
11.
         cout<<"Average score is"<<A<<endl;</pre>
12.
         if(A>=60){// conditions for the passing grade
13.
                cout<<"You have passed";
14.
15.
         }
16.
         else {
17.
                cout<<"Below the passing grade";
18.
         }
19.}
```

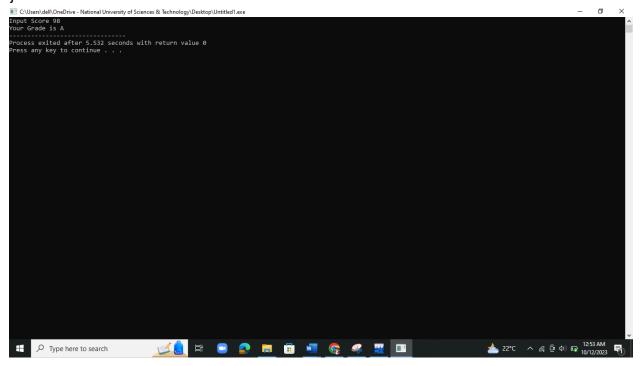


Home task:

Question 1:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
4.
          int x;
          cout<<"Input Score";</pre>
5.
6.
          cin>>x;
7.
          if (x>90\&&x<=100){
                 cout<<"Your Grade is A";</pre>
8.
9.
          else if (x>75\&&x<=90){
10.
                 cout<<"Your Grade is B";
11.
12.
13.
          else if (x>60\&&x<=75){
                 cout<<"Your Grade is C";</pre>
14.
15.
          }
          else if (x>45\&&x<=60){
16.
                 cout<<"Your Grade is D";</pre>
17.
18.
19.
          else if (x>=0\&&x<=45){
                 cout<<"Your Grade is F";</pre>
20.
21.
          else if (x<0){
22.
                 cout<<"Invalid Score please re-enter";</pre>
23.
          }
24.
```

25.}



Question 2:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
4.
          int x;
5.
          cout<<"Please interger value";</pre>
6.
         cin>>x;
         if (x\%2==0\&\&x\%5==0){
7.
                cout<<"The integer is even and divisible by 5";
8.
9.
          else if (x\%2==0){
10.
11.
                cout<<"The integer is even but not divisible by 5";
12.
          }
13.
          else {
                cout<<"The integer is divisible by 5 but is not even";
14.
```

```
15. }
16.}
```

```
## P Type here to search

## P Type here to search
```

Question 3:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
4.
          cout<<"Please enter year";</pre>
5.
6.
          cin>>x;
          if (x\%4==0){
7.
          cout<<"This year is a leap year";</pre>
8.
9. }
          else {
10.
                 cout<<"This is not a leap year";</pre>
11.
12.
          }
13.}
```

```
© Type here to search

Schoolsgy/Description (as a continue of the continue
```

Question 4:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
4.
      float x,A;
5.
      cout<<"Please enter your GPA";</pre>
6.
      cin>>x;
      cout<<"Please enter your attendance percentage";</pre>
7.
8.
      cin>>A;
      if (x>=3.5\&A>=80){
9.
             cout<<"You are eligible for the scholarship";</pre>
10.
11.
      }
      else {
12.
             cout<<"You are not eligible for the scholarship";</pre>
13.
14.
      }
15.}
```

```
Please enter your GAS 3.77

Please enter your Attendance percentage 88.9

You are eligible for the scholarship

Process exited after 11.45 seconds with return value 0

Press any key to continue . . . .

Type here to search

A Type here to search

A Type here to search
```

Question 5:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
      char alpha; //initialising
4.
      cout<<"please enter the alphabet"; // input from the user
5.
6.
      cin>>alpha;
7.
      if
   (alpha=='a'||alpha=='e'||alpha=='i'||alpha=='o'||alpha=='u'||alpha=='
  A'||alpha=='E'||alpha=='I'||alpha=='O'||alpha=='U'){ // specifying
   conditions
            cout<<"The alphabet is a vowel";
8.
9.
10.
      else {
11.
            cout<<"The alphabet is a consonant";</pre>
12.
      }
13.}
```

