LAB MANUAL 6: -

NAME	Muhammad Shehryar Ismail
CMS ID	461599
SECTION	A

LAB TASKS: -

TASK 1: -

```
#include <iostream>
     using namespace std;
 3 □ int main() {
   //TASK 1: -
 4
 5
      int x=0, y=1 ,z ,i ,n;
 6
     cout<<"Enter the number of elements: ";</pre>
 7
      cin>>n;
      cout<<x<<" "<<y<<" ";
 8
      for(i=2;i<n;++i)</pre>
 9
10 🗦 {
11
      z=x+y;
      cout<<z<<" ";
12
13
      x=y;
14
       y=z;
15 |
 C:\Users\ACG\Desktop\C++\LABB MANUAL VI.exe
Enter the number of elements: 12
0 1 1 2 3 5 8 13 21 34 55 89
Process exited after 0.7708 seconds with return value 0
Press any key to continue . . . _
```

TASK 2: -

```
18
     //TASK 2: -
19
      int rows;
20
         cout << "Enter the number of rows : ";
21
         cin >> rows;
22
         cout << endl;
23
24
         for (int i = 0; i < rows; i++)
25 -
26
             int val = 1;
27
             for (int j = 1; j < (rows - i); j++)
28 —
29
                cout << " ";
30
31
             for (int k = 0; k <= i; k++)
32 -
33
                 cout << " " << val;
34
                 val = val * (i - k) / (k + 1);
35
36
             cout << endl << endl;
37
38
         cout << endl;
39
40
41
42
        return 0;
43
        }
44
```

HOME TASKS: -

TASK 1: -

```
//hometasks
  2
      #include <iostream>
  3
      #include<math.h>
      using namespace std;
      ////task 1
  6 ☐ int main(){
  7
          int n,i,sum;
  8
          sum=2;
 9
          bool prime;
 10
          prime=true;
          for(n=3;n<50;n++){
 11 🖃
 12
          for (i=2;i<=n;i++)
 13
          {if (n%i==0){
 14
              prime=false;
 15
16
 17
          if (prime==true)
 18 🖵
              sum=sum+n;
 19
 20
          sum=sum+n;
 21
 22
 23 L
 24
          cout<<"sum of prime numbers between 1 and 50 is"<<sum;
 25
 26
   C:\Users\ACG\Downloads\lab 6.exe
 sum of prime numbers between 1 and 50 is 1224
  Process exited after 0.1013 seconds with return value 0
<sup>)i</sup>Press any key to continue . . . <u> </u>
```

TASK 2: -

```
//task 2
28
     int main(){
29 -
          int line;
30
31
32
          cout << "Enter the number of rows: ";
33
34
          cin >> line;
35
          for (int i = 1; i \leftarrow line; ++i) {
36
              for (int j = 1; j <= i; ++j) {
37
                   cout << j << " ";
38
39
40
              cout <<endl;
41
42
43
          return 0;
44
45
```

TASK 3: -

```
//task3
int main() {
    int line;

cout << "Enter the number of lines: ";
    cin >>line;

for (int i = 1; i <= line; i++) {
        for (int j = 1; j <= i * 2; ++j) {
            cout << i * 2 << " ";
        }
        cout <<endl;
}

return 0;
}</pre>
```

C:\Users\ACG\Downloads\lab 6.exe