Lab Manual 06
Lab task submission

Task 01

```cpp
#include <iostream>
using namespace std;
int main() {    int
n1=0,n2=1,n3,i,number
;    cout<<"Enter the
number of elements: ";
cin>>number;
cout<<n1<<" "<<n2<<"
";

for(i=2;i<number;++i)

{

 n3=n1+n2;
cout<<n3<<" ";
n1=n2;
n2=n3;

}
return 0;

 }
```
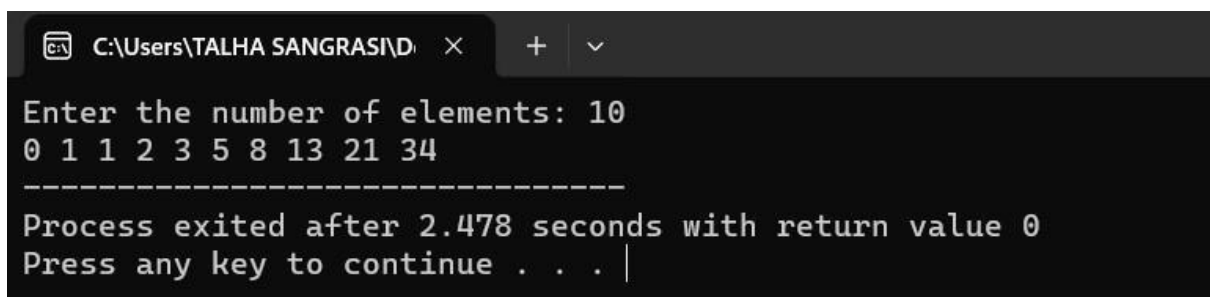
Task 02

```cpp
#include <iostream>
using namespace std;

int main() {    int
rows, num = 1;

    cout << "Enter
number of rows: ";
cin >> rows;    for(int i =
1; i <= rows; i++)

    {    for(int j = 1; j
<= i; j++)

    {        cout << num <<

" ";        num++;

        }

        cout << endl;

    }

    return 0;
}
```
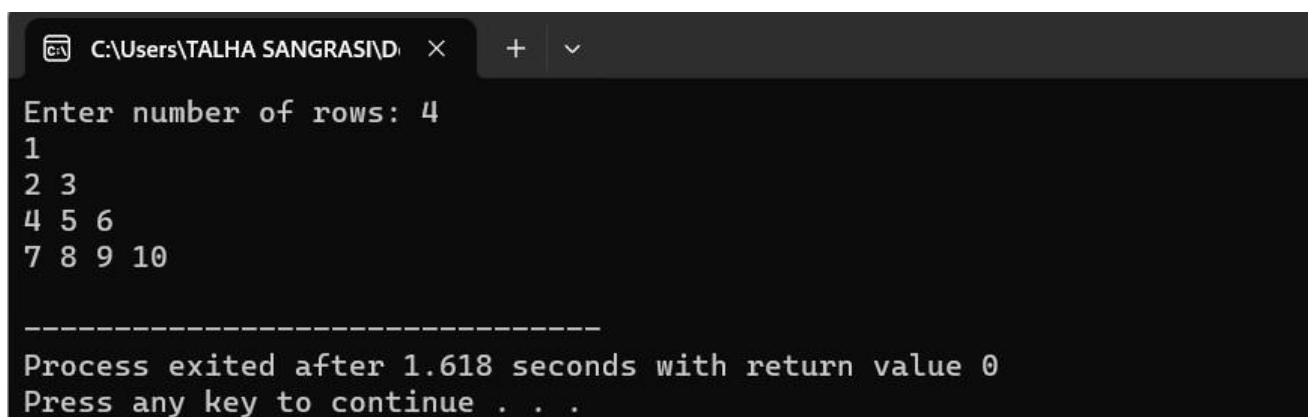
```
C:\Users\TALHA SANGRASI\D    ×    +    ∨

Enter number of rows: 4
1
2 3
4 5 6
7 8 9 10

--------------------------------
Process exited after 1.618 seconds with return value 0
Press any key to continue . . .
```

Lab manual 06

Home task submission

Task 01

```cpp
#include <iostream>

#include <cmath> using

namespace std;


bool isPrime(int number) {
if   (number   <=   1)   {
return false;
    }


    for (int i = 2; i <= sqrt(number); ++i) {
if (number % i == 0) {          return
false;
      }
   }


    return true;
}


int main() {
int sum = 0;
```
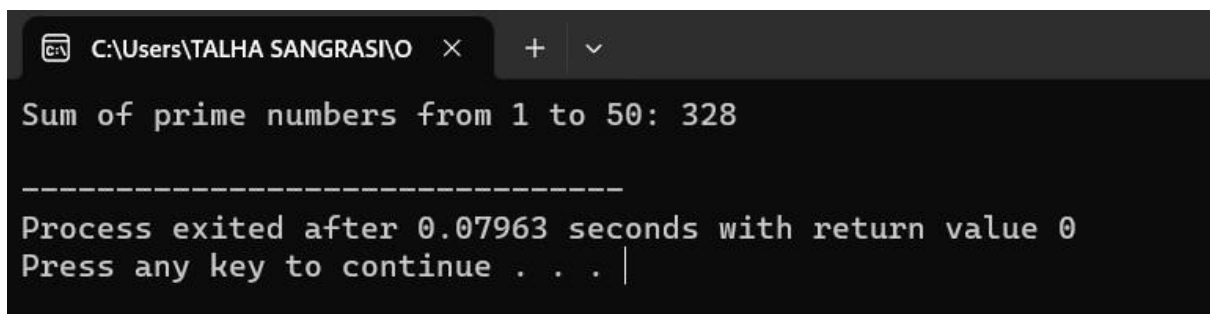
```
    for (int i = 1; i <= 50; ++i) {
if (isPrime(i)) {         sum
+= i;       } else {
continue;

    }
  }


    cout << "Sum of prime numbers from 1 to 50: " << sum <<endl;


    return 0;
}
```

```
C:\Users\TALHA SANGRASI\O    ×    +    ∨

Sum of prime numbers from 1 to 50: 328

---------------------------------
Process exited after 0.07963 seconds with return value 0
Press any key to continue . . . |
```

Task 02

```
#include <iostream> using
namespace std;
int main() {
   int rows,i,j;
   cout<<"enter the number rows ";
cin>>rows;
```

```cpp
    for ( i = 1; i <= rows; ++i) {

for ( j = 1; j <= i; ++j) {

cout << j << " ";

    }

    cout<<endl;

  }


    return 0;

}
```

```
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enter the number rows 6
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6

--------------------------------
Process exited after 3.59 seconds with return value 0
Press any key to continue . . .
```

Task 03

```cpp
#include <iostream> using

namespace std;

int main() {

int rows;

    cout << "Enter the number of rows: ";

cin >> rows;


        int number = -2;
```
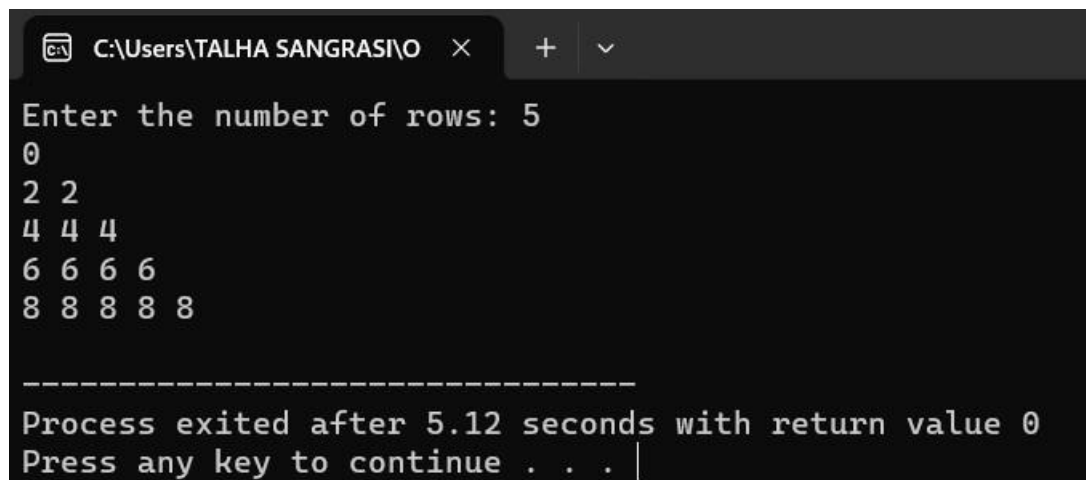
```cpp
    for (int i = 1; i <= rows; ++i) {
for (int j = 1; j <= i; ++j) {

        cout << number + 2 << " ";
    }

    cout << endl;

    number += 2;
  }

  return 0;
}
```

```
C:\Users\TALHA SANGRASI\O    ×    +    ⌄

Enter the number of rows: 5
0
2 2
4 4 4
6 6 6 6
8 8 8 8 8

--------------------------------
Process exited after 5.12 seconds with return value 0
Press any key to continue . . . |
```