Lab manual 6

Submitted to: M. Affan

Name: Muhammad Bin Ahmad

ME-15(A)

Roll No: 480779
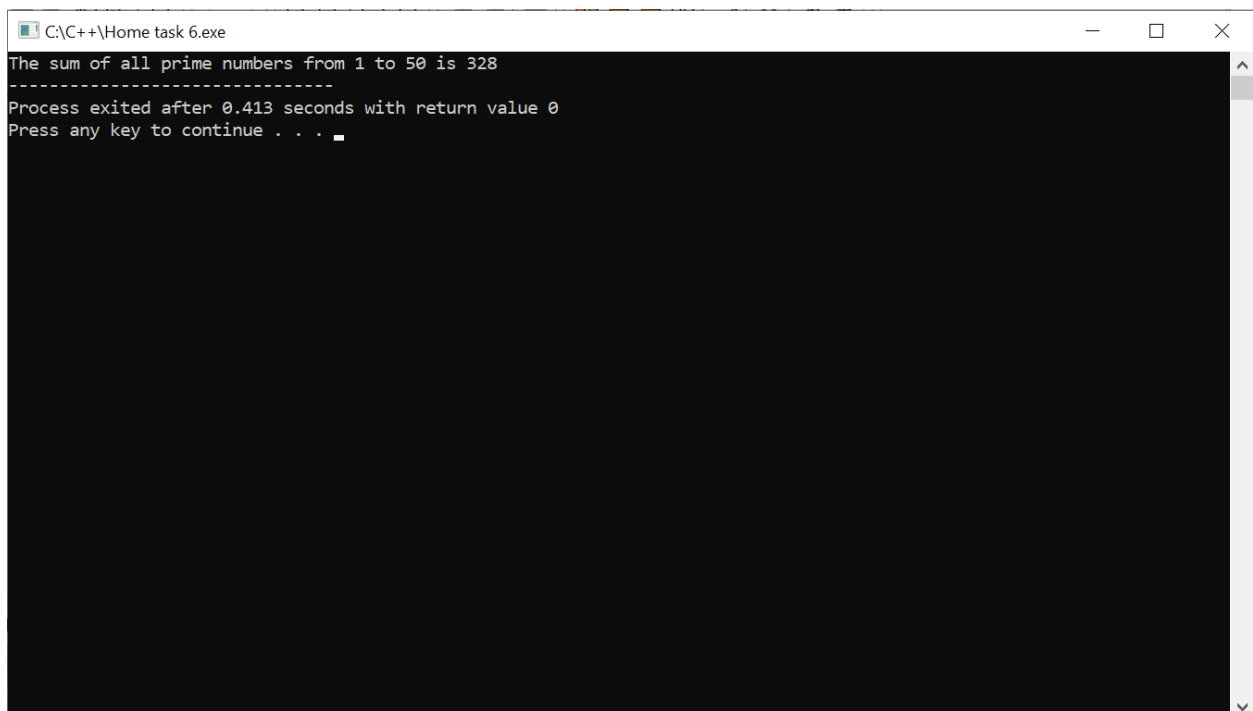
- Task 1: Write a program using break or continue statement that only adds prime numbers from 1 to 50 and display the sum on screen.

```cpp
int sum=0;

bool prime;

for (int i=2;i<=50;i++){

        prime=true;

        for(int j=2;j<i;j++){

                if(i%j==0){

                        prime=false;

                        break;

                }

        }

        if(prime==true){

        sum+=i;

        }

}

        cout<<"The sum of all prime numbers from 1 to 50 is "<<sum;
```

C:\C++\Home task 6.exe
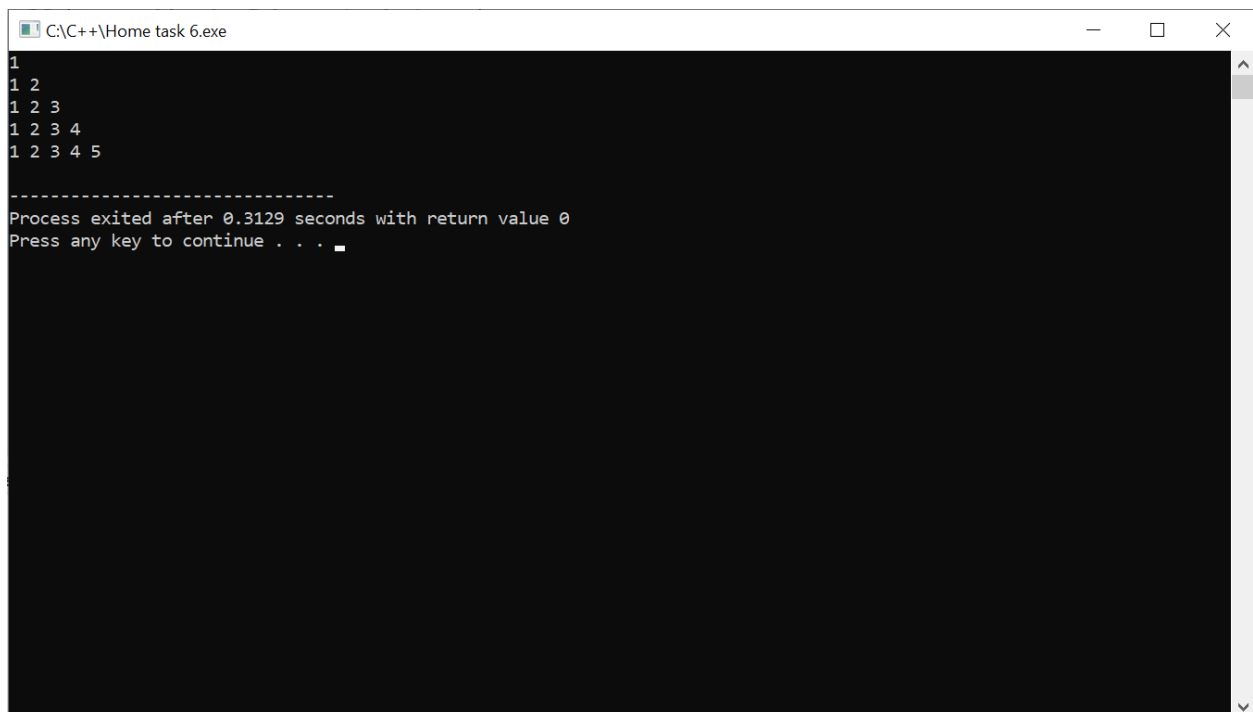
```
The sum of all prime numbers from 1 to 50 is 328
-------------------------------
Process exited after 0.413 seconds with return value 0
Press any key to continue . . .
```

- Task 2: Write a program in C++ to create the following pattern.

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

```
for(int r=1; r<=5; r++){
        for(int i=1;i<=r;i++){
                cout<<i<<" ";


        }
        cout<<endl;
    }
```

```
C:\C++\Home task 6.exe                                    —    □    ×
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

-------------------------------
Process exited after 0.3129 seconds with return value 0
Press any key to continue . . . ■
```

- Task 3: Write a C++ program to print:

1

2 2

4 4 4 4

6 6 6 6 6 6

```
int num=1;
        cout<<num;
        for(int r=0; r<=6; r+=2){
                for(int i=1;i<=r;i++){
                        cout<<r<<" ";


                }
                cout<<endl;

        }
```
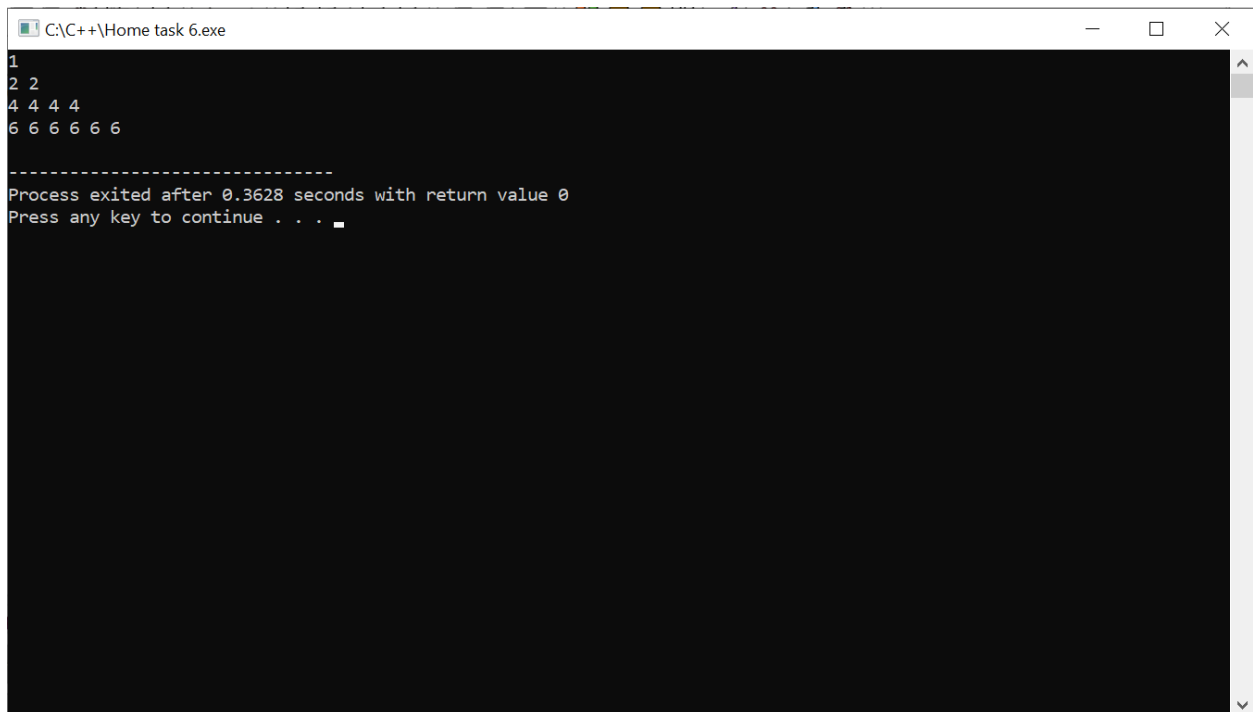
C:\C++\Home task 6.exe

```
1
2 2
4 4 4 4
6 6 6 6 6 6

--------------------------------
Process exited after 0.3628 seconds with return value 0
Press any key to continue . . .
```