

Lab manual 6:

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Task#1:

```
#include<iostream>

using namespace std;

int main()
{
    int sum=0;

    cout<<"prime number from 1 to 50 :";

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

        int p=1;

        for( int i=2; i<num;++i)
        {
            if(num%i==0){

                p=0;

                break;

            }

        }

        if(p==1){

            cout<<num<<" ";

            sum=sum+num;

        }

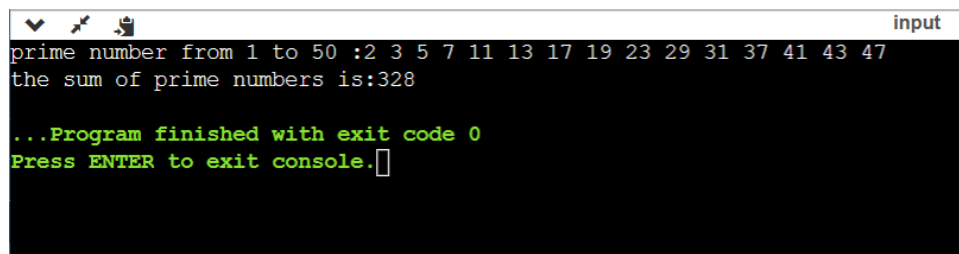
    }

    cout<<endl;

    cout<<"the sum of prime numbers is:"<<sum;

    return 0;

}
```



A terminal window with a black background and white text. The text displays the prime numbers from 1 to 50 and their sum. The window has a title bar with standard icons and the word 'input' on the right.

```
prime number from 1 to 50 :2 3 5 7 11 13 17 19 23 29 31 37 41 43 47
the sum of prime numbers is:328

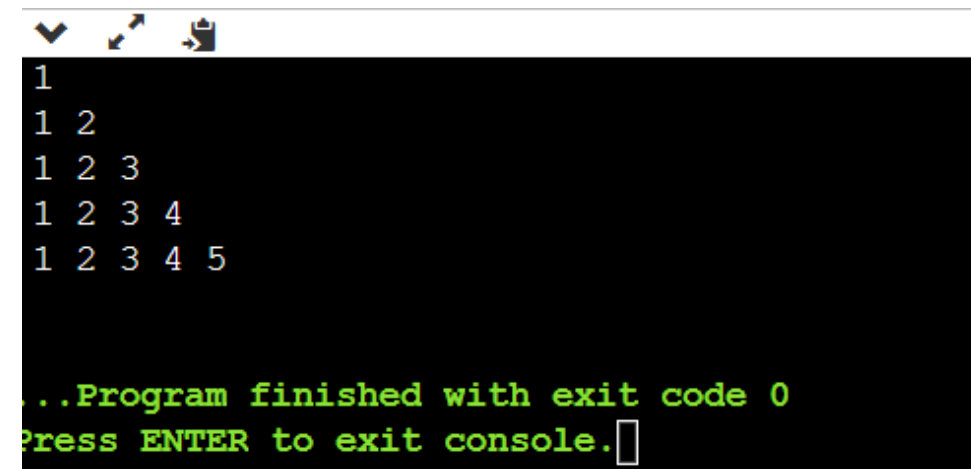
...Program finished with exit code 0
Press ENTER to exit console.
```

Task#2:

```
#include<iostream>

using namespace std;

int main()
{
    for(int i=1;i<=5;i++){
        for(int j=1;j<=i;j++){
            cout<<" "<<j;
        }
        cout<<endl;
    }
    return 0;
}
```



A terminal window with a black background and white text. It shows the output of the program from Task#2, which is a 5x5 grid of numbers. The window has a title bar with standard icons.

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

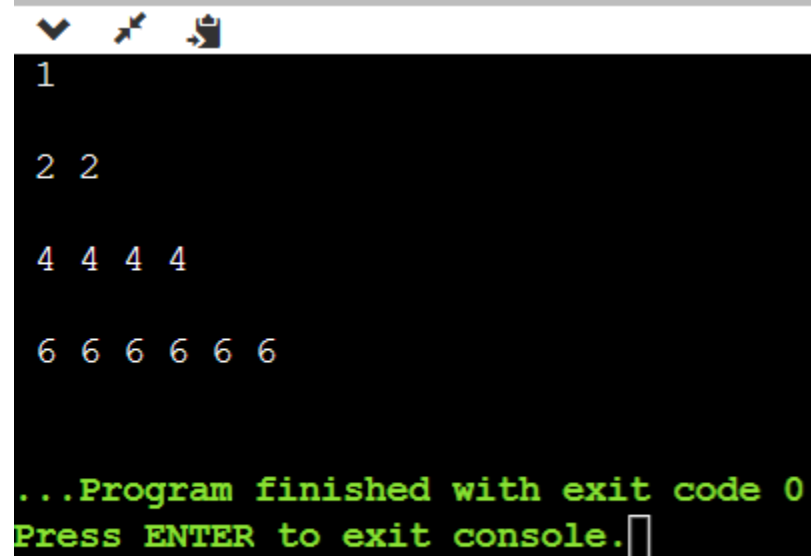
...Program finished with exit code 0
Press ENTER to exit console.
```

Task#3:

```
#include<iostream>
```

```
using namespace std;

int main()
{
    cout<<" 1"<<endl;
    for(int i=1;i<=6;i++){
        for(int j=1;j<=i;j++){
            if(i%2==0){
                cout<<" "<<j;
            }
            else break;
        }
        cout<<endl;
    }
    return 0;
}
```



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

...Program finished with exit code 0
Press ENTER to exit console. □
```

