

### **Prepared By:**

Name	CMS ID	Class	Lab Manual
Muhammad Asim Shah	470574	ME-15 "C"	6

#### **Home Task:**

**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.

#### **INPUT:**

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

int main() {
   int sum = 0;

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

for (int i = 2; i <= num / 2; i++) {
   if (num % i == 0) {</pre>
```



```
isPrime = false;
break; }

if (!isPrime) {
    continue; // Skip non-prime numbers
}

sum += num;
}

cout << "Sum of prime numbers from 1 to 50: " << sum << endl;
return 0;
}</pre>
```



#### **Output:**

**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



### **Inputs**:

```
#include <iostream>
using namespace std;
int main() {
  int rows;
  cout << "Enter the number of rows: ";</pre>
  cin >> rows;
  for (int i = 1; i \le rows; i++) {
     for (int j = 1; j \le i; j++) {
       cout << j << " ";
     cout << endl;</pre>
  }
  return 0;
```



### **Output:**

### **Task 3:** Write a C++ program to print:

```
1
22
4444
666666
```

### **Input:**

```
#include <iostream>
using namespace std;
int main() {
  int rows;
```



```
cout << "Enter the number of rows: ";
cin >> rows;
cout <<"1" <<endl;

for (int i = 1; i <= rows; i++) {
    for (int j = 1; j <= i * 2; j++) {
        cout << i * 2 << " ";
    }
    cout << endl;
}</pre>
```

### **Output:**



```
using namespace std;
         4 int main() {
                int rows;
                cout << "Enter the number of rows: ";</pre>
                cin >> rows;
                cout <<"1" <<endl;</pre>
                for (int i = 1; i <= rows; i++) {
                    for (int j = 1; j <= i * 2; j++) {
                         cout << i * 2 << " ";
                    cout << endl;</pre>
                                                                        input
     Enter the number of rows: 3
     2 2
     4 4 4 4
     666666
act Us •
```

Program finished with exit code 0