

Coding C++

RUN

MENU

Auto saved at 18:28:47

```
1 // LAB MANUAL : 06
2 // Q.no 1 ( Lab Task )
3 // Fibonacci Sequence
4
5 #include<iostream>
6 #include<iomanip>
7 using namespace std;
8
9
10 int main()
11 {
12     int num,first=0,second=1,next;
13     cout << " Enter the final term of the sequence :" << endl;
14     cin >> num;
15
16     cout << " The Fibonacci Sequence is :" << endl;
17
18     for(int i=1;i<num;i++) {
19
20         cout<< setw(3) <<first<<endl; // 0,1,1,2,3,5,8,
21         next = first+second; // 1,2,3,5,8,13,21
22         first= second; // 1,1,2,3,5,8,13
23         second=next; // 1,2,3,5,8,13,21
24     }
25
26
27     return 0;
28 }
```

Compile Result

```
Enter the final term of the sequence :
```

```
8
```

```
The Fibonacci Sequence is :
```

```
0
```

```
1
```

```
1
```

```
2
```

```
3
```

```
5
```

```
8
```

```
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```

Coding C++

RUN

MENU

Auto saved at 08:06:57

```
1 // Lab manual: 06
2 // Q no: 02
3 // Floyd's Triangle
4 #include<iostream>
5 #include<cmath>
6 using namespace std;
7
8
9
10 int main() {
11
12     int totalrows, rows, col, num = 1;
13
14     cout << " Enter no of rows: " ;
15     cin>> totalrows;
16
17     for( rows=1 ; rows<=totalrows ; rows++){
18         for( col=1 ; col<=rows ; col++){
19             cout<<num<<" ";
20             ++num;
21         }
22         cout<<endl;
23     }
24
25     return 0;
26 }
```

Compile Result

Enter no of rows: 6

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21
```

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Coding C++

RUN

MENU

Auto saved at 18:21:52

```
1 #include<iostream>
2 #include<cmath>
3 using namespace std;
4
5 int main(){
6
7     int num,j;
8     int sum=0;
9
10    for( num=2; num<=50; ++num){
11        bool isPrime = true ;
12
13        for( j=2 ; j<= num/2 ; ++j){
14
15            if(num%j==0){
16
17                isPrime = false ;
18                break; }
19            }
20
21            if(isPrime){
22                sum+=num; }
23
24            }
25        cout<<sum<<" is the sum of prime numbers b/w 1 & 50."<<endl;
26
27
28    return 0;
29 }
```

Compile Result

```
328 is the sum of prime numbrs b/w 1 & 50
.
```

```
[Process completed - press Enter]
```

Coding C++

Auto saved at 12:13:30

RUN

MENU

```
1 #include<iostream>
2 #include<cmath>
3 using namespace std;
4
5 int main(){
6
7     int num;
8     int a,b;
9     cout << " Enter final number: " ;
10    cin >> num;
11
12    for(a=1;a<=num;a++){
13        for(b=1;b<=a;b++){
14
15            cout<<" "<<b;
16
17        }
18        cout<<endl;
19    }
20
21    return 0;
22 }
```

Compile Result

```
Enter final number: 5
```

```
1
```

```
1 2
```

```
1 2 3
```

```
1 2 3 4
```

```
1 2 3 4 5
```

```
[Process completed - press Enter]
```


Coding C++

RUN

MENU

Auto saved at 14:30:08

```
1 /* Lab Manual: 06
2 Q no: 05
3 Printing No */
4 #include <iostream>
5 using namespace std;
6
7 int main()
8 {
9     cout<<"1"<<endl;
10    for (int i=1; i<=3; i++)
11    {
12        for (int j=1; j<=i*2; j++)
13        {
14            cout<<i*2<<" ";
15        }
16        cout<<endl;
17    }
18
19    return 0;
20 }
21
22
```

Compile Result

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

[Process completed - press Enter]