



Computer Systems and Programming

Lab Manual 6 Home Task

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Class: ME-15 C



Q1. Write a program using break or continue statement that only adds prime numbers from 1 to 50 and displays the sum on the screen.

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int sum=0;
6      for (int i=2; i<=50; i++) {
7          for (int j=2; j<=i; j++) {
8              if (j%i==0 && i!=j) {
9                  break;
10             }
11             if (i==j) {
12                 sum=sum+i;
13             }
14         }
15     }
16     cout << "The sum of all prime numbers from 1 to 50 is " << sum << endl;
17     return 0;
18 }
19
```

The sum of all prime numbers from 1 to 50 is 1274

Process returned 0 (0x0) execution time : 0.036 s
Press any key to continue.

Q2. 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
```

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      for (int i=1; i<=5; i++) {
6          for (int j=1; j<=i; j++) {
7              cout << j << " ";
8          }
9          cout << endl;
10     }
11     return 0;
12 }
13
```

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

```
Process returned 0 (0x0)   execution time : 0.046 s
Press any key to continue.
```

Q2. Write a C++ program to print:

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

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      cout <<1<<endl;
6      for(int i=1;i<=6;i++){
7          for(int j=1;j<=i;j++){
8              if(i%2==0){
9                  cout <<i;
10                 }
11             }
12             cout<<endl;
13
14         }
15         return 0;
16     }
17
```

```
1
22
4444
666666
Process returned 0 (0x0)   execution time : 1.079 s
Press any key to continue.
|
```