

C:\Users\akhan.bece23nice\Desktop\Dev c++\Task 1.cpp - Embarcadero Dev-C++ 6.3

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TDM-GCC 9.2.0 64-bit Release

(globals)

Project Classes Task 1.cpp Task 2.cpp Task 3.cpp Task 4.cpp

```
1  #include<iostream>
2  using namespace std;
3  void asterisks();
4  void numbers();
5  int main()
6  {
7      asterisks();
8      numbers();
9  }
10 void asterisks()
11 {
12
13     for(int i=10;i>0;i-=2)
14     {
15         for(int j=0;j<i;j++)
16         {
17             cout<<"*";
18         }
19         cout<<endl;
20     }
21 }
22
23 void numbers()
24 {
25     for(int i=3;i<=7;i++)
26     {
27         for(int j=0;j<i;j++)
28         {
29             cout<<i;
30         }
31         cout<<endl;
32     }
33 }
34
35 }
```

ProjectClassesTask 1.cppTask 2.cppTask 3.cppTask 4.cpp

```
1  #include <iostream>
2  using namespace std;
3
4  void pattern(int n);
5
6
7  int main()
8  {
9      int n;
10     cout << "Enter a number greater than 5: ";
11     cin >> n;
12     if(n>5)
13     {
14
15         pattern(n);
16     }
17     else
18     cout<<"Enter a number greater than 5.";
19     return 0;
20 }
21 void pattern(int n)
22 {
23     if (n <= 5)
24     {
25         cout << "Please enter a number greater than 5." << endl;
26         return;
27     }
28
29
30     for (int i = 1; i <= n; i++)
31     {
32
33         for (int j = 1; j <= n - i; j++)
34         {
35             cout << " ";
36         }
37
38         for (int k = 1; k <= i; k++)
39         {
40             cout << "*";
41         }
42         cout << endl;
43     }
44
45     for (int i = n - 1; i >= 1; i--)
46     {
47
48         for (int j = 1; j <= n - i; j++)
49         {
50             cout << " ";
51         }
52
53         for (int k = 1; k <= i; k++)
54         {
55             cout << "*";
56         }
57         cout << endl;
58     }
59 }
```

C:\Users\akhan.bece23nice\Desktop\Dev c++\Task 3.cpp - Embarcadero Dev-C++ 6.3

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(globals)

Task 1.cpp × Task 2.cpp × Task 3.cpp × Task 4.cpp ×

```
1  #include <iostream>
2
3  using namespace std;
4
5
6  void checkNumber(int num) {
7      cout << num << " is an integer." << endl;
8  }
9
10
11 void checkNumber(float num) {
12     cout << num << " is a decimal (float) number." << endl;
13 }
14
15 int main() {
16     float userInput;
17
18
19     cout << "Enter a number: ";
20     cin >> userInput;
21
22
23
24     if (userInput == static_cast<int>(userInput)) {
25         checkNumber(static_cast<int>(userInput));
26     } else {
27         checkNumber(userInput);
28     }
29
30     return 0;
31 }
32
```

C:\Users\akhan.bece23nice\Desktop\Dev c++\Task 4.cpp - Embarcadero Dev-C++ 6.3

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(globals)

Project Classes Task 1.cpp × Task 2.cpp × Task 3.cpp × Task 4.cpp ×

```
1  #include <iostream>
2
3  using namespace std;
4
5
6  void swap(int &a, int &b) {
7      int temp = a;
8      a = b;
9      b = temp;
10 }
11
12 int main() {
13     int num1 = 5, num2 = 10;
14
15     cout << "Before swapping:" << endl;
16     cout << "num1: " << num1 << ", num2: " << num2 << endl;
17
18
19     swap(num1, num2);
20
21
22     cout << "After swapping:" << endl;
23     cout << "num1: " << num1 << ", num2: " << num2 << endl;
24
25
26     return 0;
27 }
28
```