



main.cpp

Output



```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int a = 5, b = 10, temp;
7
8      cout << "Before swapping." << endl;
9      cout << "a = " << a << ", b = " << b
      << endl;
10
11     temp = a;
12     a = b;
13     b = temp;
14
15     cout << "\nAfter swapping." << endl;
16     cout << "a = " << a << ", b = " << b
        << endl;
17
18     return 0;
19 }
```

Run



main.cpp

Output



/tmp/bKdt5XCGP6.o

Before swapping.

a = 5, b = 10

After swapping.

a = 10, b = 5

|



main.cpp

Output



```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      float n1, n2, n3;
6
7      cout << "Enter three numbers: ";
8      cin >> n1 >> n2 >> n3;
9
10     if(n1 >= n2 && n1 >= n3)
11         cout << "Largest number: " << n1
12             ;
13
14     if(n2 >= n1 && n2 >= n3)
15         cout << "Largest number: " << n2
16             ;
17
18     if(n3 >= n1 && n3 >= n2)
19         cout << "Largest number: " << n3
20             ;
21
22     return 0;
23 }
```

Run



main.cpp

Output



/tmp/xTXj0NDhUA.o

Enter three numbers:2.3

8.3

-4.2

Largest number: 8.3|



main.cpp

Output



```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int year;
6
7      cout << "Enter a year: ";
8      cin >> year;
9
10     if (year % 4 == 0) {
11         if (year % 100 == 0) {
12             if (year % 400 == 0)
13                 cout << year << " is a
                    leap year.";
14             else
15                 cout << year << " is not
                    a leap year.";
16         }
17         else
18             cout << year << " is a leap
                    year.";
19     }
20     else
21         cout << year << " is not a leap
                    year.";
22
23     return 0;
24 }
```

Run



main.cpp

Output



/tmp/xTXj0NDhUA.o

Enter a year: 2014

2014 is not a leap year.



main.cpp

Output



```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n, t1 = 0, t2 = 1, nextTerm = 0;
6
7      cout << "Enter the number of terms: ";
8      cin >> n;
9
10     cout << "Fibonacci Series: ";
11
12     for (int i = 1; i <= n; ++i) {
13         // Prints the first two terms.
14         if(i == 1) {
15             cout << t1 << ", ";
16             continue;
17         }
18         if(i == 2) {
19             cout << t2 << ", ";
20             continue;
21         }
22         nextTerm = t1 + t2;
23         t1 = t2;
24         t2 = nextTerm;
25
26         cout << nextTerm << ", ";
27     }
28     return 0;
```

Run

**Programiz**

C++ Online Compiler

[Learn Python](#)

main.cpp

[Output](#)`/tmp/xTXj0NDhUA.o`

Enter the number of terms: 10

Fibonacci Series: 0, 1, 1, 2, 3, 5, 8, 13, 21,
34, |



main.cpp

Output



```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int i, n;
6      bool isPrime = true;
7
8      cout << "Enter a positive integer: "
9           ;
10     cin >> n;
11
12     // 0 and 1 are not prime numbers
13     if (n == 0 || n == 1) {
14         isPrime = false;
15     }
16     else {
17         for (i = 2; i <= n / 2; ++i) {
18             if (n % i == 0) {
19                 isPrime = false;
20                 break;
21             }
22         }
23         if (isPrime)
24             cout << n << " is a prime
25                 number";
26         else
27             cout << n << " is not a
28                 number".
```

Run



main.cpp

Output



/tmp/g06StC9Hc4.o

Enter a positive integer: 29

29 is a prime number|



main.cpp

Output



```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int i, n;
7      float arr[100];
8
9      cout << "Enter total number of
        elements(1 to 100): ";
10     cin >> n;
11     cout << endl;
12
13     // Store number entered by the user
14     for(i = 0; i < n; ++i)
15     {
16         cout << "Enter Number " << i + 1
            << " : ";
17         cin >> arr[i];
18     }
19
20     // Loop to store largest number to
        arr[0]
21     for(i = 1; i < n; ++i)
22     {
23         // Change < to > if you want to
            find the smallest element
24         if(arr[0] < arr[i])
25             arr[0] = arr[i];
```

[Run](#)



main.cpp

Output

`/tmp/P20n74ooZy.o`

Enter total number of elements(1 to 100): 8

Enter Number 1: 23.4

Enter Number 2: -34.5

Enter Number 3: 50

Enter Number 4: 33.5

Enter Number 5: 55.5

Enter Number 6: 43.7

Enter Number 7: 5.7

Enter Number 8: -66.5

Largest element = 55.5|



main.py

Shell



```
1  # Python 3.x code to demonstrate
    star pattern
2
3  # Function to demonstrate printing
    pattern
4
5  def pypart(n):
6
7
8
9      # outer loop to handle number
        of rows
10
11     # n in this case
12
13     for i in range(0, n):
14
15
16
17         # inner loop to handle
            number of columns
18
19         # values changing acc. to
            outer loop
20
```

Run



main.py

Shell



```
        number of columns
18
19         # values changing acc. to
        outer loop
20
21     for j in range(0, i+1):
22
23
24
25         # printing stars
26
27         print("* ",end="")
28
29
30
31         # ending line after each
        row
32
33         print("\r")
34
35 # Driver Code
36
37 n = 5
38 pypart(n)
39
```

Run



main.py

Shell



*

* *

* * *

* * * *

* * * * *

> |