

1. Write a program to convert a string into upper or lower case in C++ using classes?

```
Programiz
C++ Online Compiler
Press F11 to exit full screen
Programiz PRO >

main.cpp
1 #include <iostream>
2 #include <string>
3 #include <cctype>
4 using namespace std;
5 string toUpperCase(const string& str) {
6     string result = str;
7     for (char &c : result) {
8         if (islower(c)) {
9             c = toupper(c);
10        }
11    }
12    return result;
13 }
14 string toLowerCase(const string& str) {
15     string result = str;
16     for (char &c : result) {
17         if (isupper(c)) {
18             c = tolower(c);
19        }
20    }
21    return result;
22 }
23 int main() {
24     string input;
25     cout << "Enter a string: ";
26     getline(cin, input);
27     cout << "String in Upper Case: " << toUpperCase(input) << endl;
28     cout << "String in lower Case: " << toLowerCase(input) << endl;
29     return 0;
30 }
31
```

```
Output
/tmp/1QHenW00H2.o
Enter a string: Good morning All
String in Upper Case: GOOD MORNING ALL
String in Lower Case: good morning all

=== Code Execution Successful ===
```

2. Write a C++ program to find even or odd numbers using any conditional statement?

```
Programiz
C++ Online Compiler
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main.cpp
1 #include <iostream>
2 using namespace std;
3 int main() {
4     int number;
5     cout << "Enter an integer number: ";
6     cin >> number;
7     if (number % 2 == 0) {
8         cout << number << " is even." << endl;
9     } else {
10        cout << number << " is odd." << endl;
11    }
12    return 0;
13 }
14
```

```
Output
/tmp/C6069VPEyy.o
Enter an integer number: 943239
943239 is odd.

=== Code Execution Successful ===
```

3. Find if a number is prime or not using conditional statements in C++.

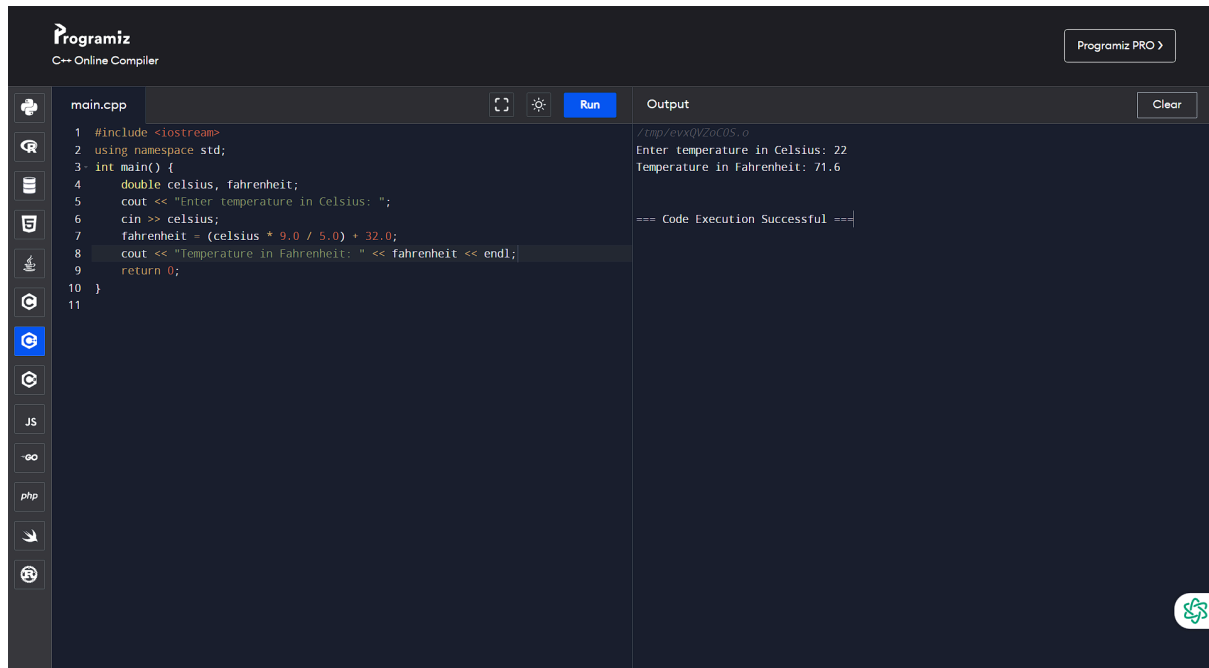
```
Programiz
C++ Online Compiler
Programiz PRO >

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

```
Output
/tmp/65Kc3PHC0.o
Enter a positive integer: 8454
8454 is not a prime number.

=== Code Execution Successful ===
```

4 Write a Program to convert Celsius to Fahrenheit in C++?



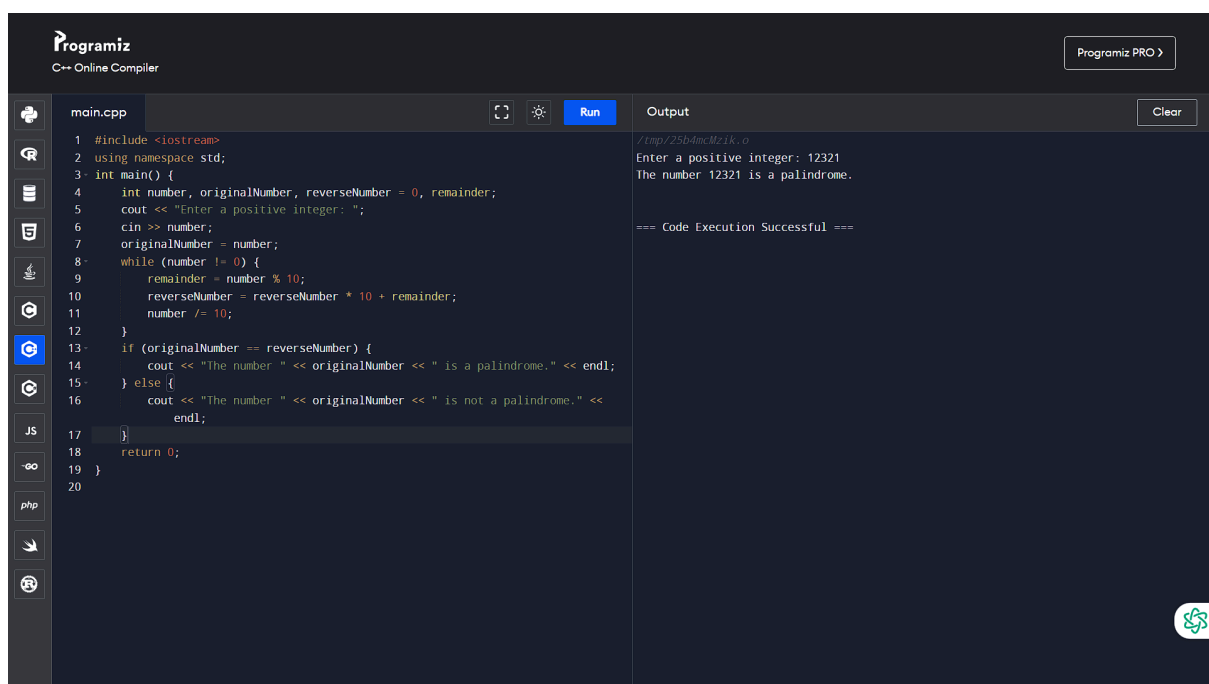
The screenshot shows the Programiz C++ Online Compiler interface. The code in main.cpp is as follows:

```
1 #include <iostream>
2 using namespace std;
3 int main() {
4     double celsius, fahrenheit;
5     cout << "Enter temperature in Celsius: ";
6     cin >> celsius;
7     fahrenheit = (celsius * 9.0 / 5.0) + 32.0;
8     cout << "Temperature in Fahrenheit: " << fahrenheit << endl;
9     return 0;
10 }
11
```

The output shows the program execution with the input 22 for Celsius, resulting in 71.6 for Fahrenheit. The output text is:
/tmp/evxQVZoC0S.o
Enter temperature in Celsius: 22
Temperature in Fahrenheit: 71.6

=== Code Execution Successful ===

5 Write a program in C++ to check if a number is palindrome or not using control Statements?



The screenshot shows the Programiz C++ Online Compiler interface. The code in main.cpp is as follows:

```
1 #include <iostream>
2 using namespace std;
3 int main() {
4     int number, originalNumber, reverseNumber = 0, remainder;
5     cout << "Enter a positive integer: ";
6     cin >> number;
7     originalNumber = number;
8     while (number != 0) {
9         remainder = number % 10;
10        reverseNumber = reverseNumber * 10 + remainder;
11        number /= 10;
12    }
13    if (originalNumber == reverseNumber) {
14        cout << "The number " << originalNumber << " is a palindrome." << endl;
15    } else {
16        cout << "The number " << originalNumber << " is not a palindrome." << endl;
17    }
18    return 0;
19 }
20
```

The output shows the program execution with the input 12321 for the integer, resulting in the message "The number 12321 is a palindrome." The output text is:
/tmp/25b4ncMzrk.o
Enter a positive integer: 12321
The number 12321 is a palindrome.

=== Code Execution Successful ===