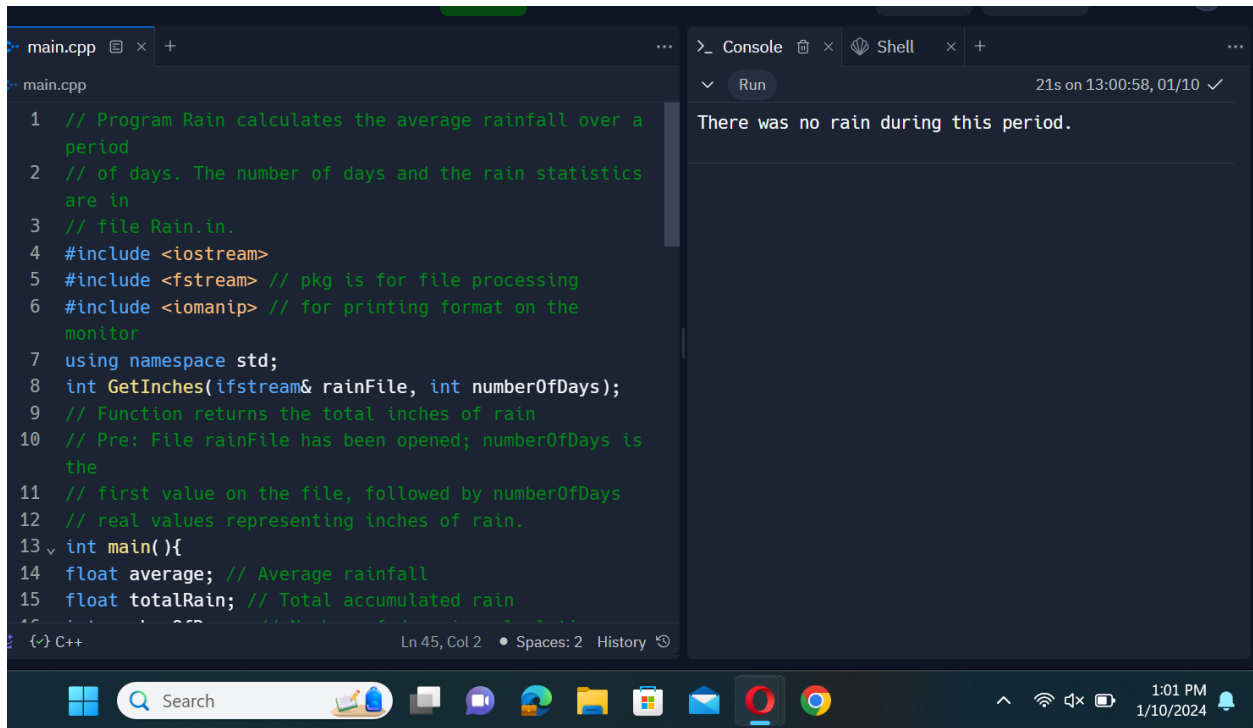


1. Create your personal account of C++ online compiler at the following link and run the first program on it.



```
1 // Program Rain calculates the average rainfall over a
2 // period
3 // of days. The number of days and the rain statistics
4 // are in
5 // file Rain.in.
6 #include <iostream>
7 #include <fstream> // pkg is for file processing
8 #include <iomanip> // for printing format on the
9 // monitor
10 using namespace std;
11 int GetInches(ifstream& rainFile, int numberOfDays);
12 // Function returns the total inches of rain
13 // Pre: File rainFile has been opened; numberOfDays is
14 // the
15 // first value on the file, followed by numberOfDays
16 // real values representing inches of rain.
17 int main(){
18     float average; // Average rainfall
19     float totalRain; // Total accumulated rain
20     // ... (rest of the code is obscured by a scrollbar) ...
21 }
```

Ln 45, Col 2 • Spaces: 2 History

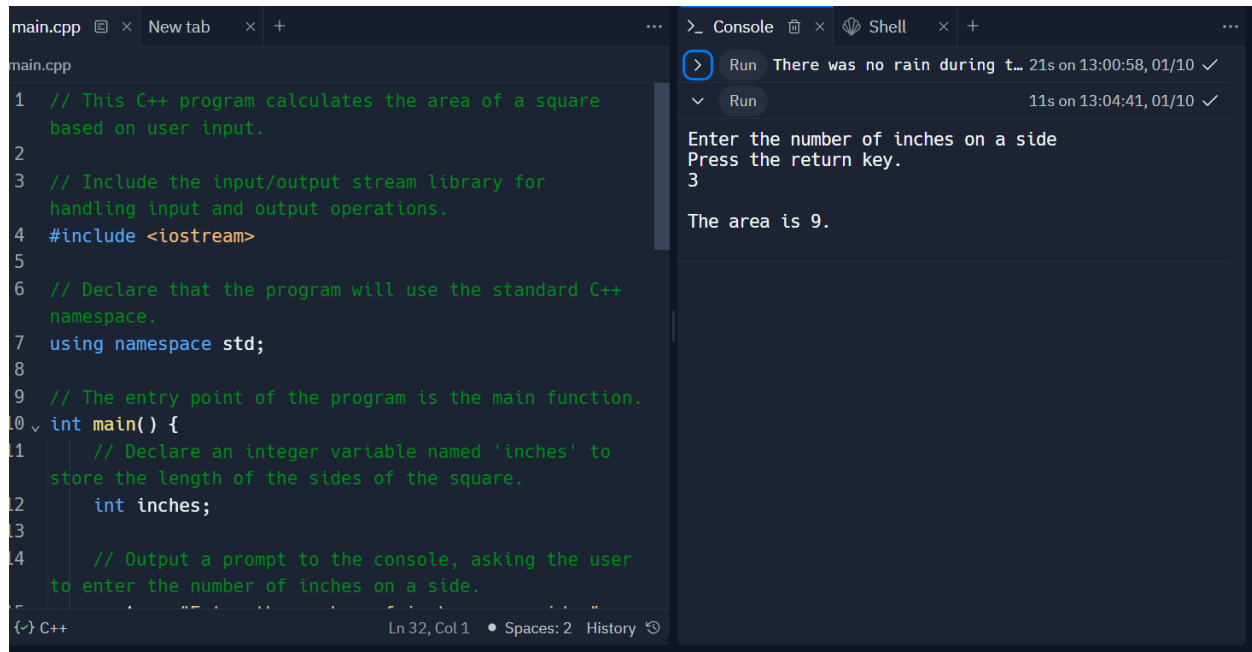
Console Shell

Run 21s on 13:00:58, 01/10 ✓

There was no rain during this period.

Windows taskbar: Search, File Explorer, Mail, Edge, Chrome, 1:01 PM 1/10/2024

2. Enter the editor and key in the following program. And explain the meanings of each statement.



```
main.cpp  x  New tab  x  +  
main.cpp  
1 // This C++ program calculates the area of a square  
  based on user input.  
2  
3 // Include the input/output stream library for  
  handling input and output operations.  
4 #include <iostream>  
5  
6 // Declare that the program will use the standard C++  
  namespace.  
7 using namespace std;  
8  
9 // The entry point of the program is the main function.  
10 int main() {  
11     // Declare an integer variable named 'inches' to  
    store the length of the sides of the square.  
12     int inches;  
13  
14     // Output a prompt to the console, asking the user  
    to enter the number of inches on a side.  
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```

```
19
20 // Read the user input from the console and store
  it in the 'inches' variable.
21 cin >> inches;
22
23 // Output a blank line for formatting.
24 cout << endl;
25
26 // Calculate the area of the square (length *
  length) and output the result along with a message.
27 cout << "The area is " << inches * inches << "."
  << endl;
28
29 // Indicate successful program execution and
  return a value of 0 to the operating system.
30 return 0;
31 }
32
```

Console output:

```
> Run There was no rain during t... 21s on 13:00:58, 01/10 ✓
  Run 11s on 13:04:41, 01/10 ✓
Enter the number of inches on a side
Press the return key.
3
The area is 9.
```

3. Write the program to check leap year as the first programming exercise, and verify your program by the following cases
- The input prompt is "Enter a year AD, for example, 1997"
 - Change the prompt so that the example year is 2005.

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int year;
6
7     // Prompt with example year 1997
8     cout << "Enter a year AD, for example, 1997:
  ";
9     cin >> year;
10
11     if ((year % 4 == 0 && year % 100 != 0) ||
  (year % 400 == 0)) {
12         cout << year << " is a leap year";
13     } else {
14         cout << year << " is not a leap year";
15     }
16
17     // Change prompt to example year 2005
18     cout << "\nEnter a year AD, for example, 2005: ";
19     cin >> year;
20     if ((year % 4 == 0 && year % 100 != 0) ||
  (year % 400 == 0)) {
21         cout << year << " is a leap year";
22     } else {
23         cout << year << " is not a leap year";
24     }
25 }
```

Console output:

```
> Run 11s on 13:27:19, 01/10 ✓
Enter a year AD, for example, 1997: 1997
1997 is not a leap year
Enter a year AD, for example, 2005: 2004
2004 is a leap year
> Run Enter a year AD, for example, 199... 8s on 13:27:45, 01/10 ●
```

```
12     cout << year << " is a leap year";
13 } else {
14     cout << year << " is not a leap year";
15 }
16
17 // Change prompt to example year 2005
18 cout << "\nEnter a year AD, for example,
2005: ";
19 cin >> year;
20
21 if ((year % 4 == 0 && year % 100 != 0) ||
22 (year % 400 == 0)) {
23     cout << year << " is a leap year";
24 } else {
25     cout << year << " is not a leap year";
26 }
27
28 return 0;
}
```

Run 11s on 13:27:19, 01/10 ✓

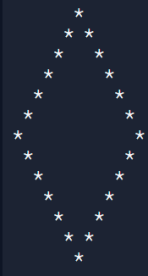
Enter a year AD, for example, 1997: 1997
1997 is not a leap year
Enter a year AD, for example, 2005: 2004
2004 is a leap year

Run Enter a year AD, for example, 19... 12s on 13:27:45, 01/10 ✓

4. Figure out the program to print the following pattern by loop structure

```
1 #include <iostream>
2
3 int main() {
4     int n = 7; // Number of lines
5     for (int i = 0; i < n; ++i) {
6         for (int j = 0; j < n - i - 1; ++j) {
7             std::cout << " ";
8         }
9         std::cout << "*";
10
11         if (i > 0) {
12             int spaces = i * 2 - 1;
13             for (int k = 0; k < spaces; ++k) {
14                 std::cout << " ";
15             }
16             std::cout << "*";
17         }
18
19         std::cout << std::endl;
20     }
21 }
```

Run 9s on 13:38:59, 01/10 ✓



```

20 }
21
22 // Mirror the upper half to print the lower half
23 for (int i = n - 2; i >= 0; --i) {
24     for (int j = 0; j < n - i - 1; ++j) {
25         std::cout << " ";
26     }
27     std::cout << "*";
28
29     if (i > 0) {
30         int spaces = i * 2 - 1;
31         for (int k = 0; k < spaces; ++k) {
32             std::cout << " ";
33         }
34         std::cout << "*";
35     }
36
37     std::cout << std::endl;
38 }
39

```

```

      *
     * *
    * * *
   * * * *
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   * * * *
    * * *
     * *
      *

```

{-} C++ Ln 42, Col 1 • Spaces: 2 History

```

main.cpp
main.cpp
31     for (int k = 0; k < spaces; ++k) {
32         std::cout << " ";
33     }
34     std::cout << "*";
35 }
36
37 std::cout << std::endl;
38 }
39
40 return 0;
41 }
42

```

Generate Ctrl I

>_ Console Shell

Run 9s on 13:38:59, 01/10 ✓

```

      *
     * *
    * * *
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      *

```