Discrete Structures 2

Seatwork 1

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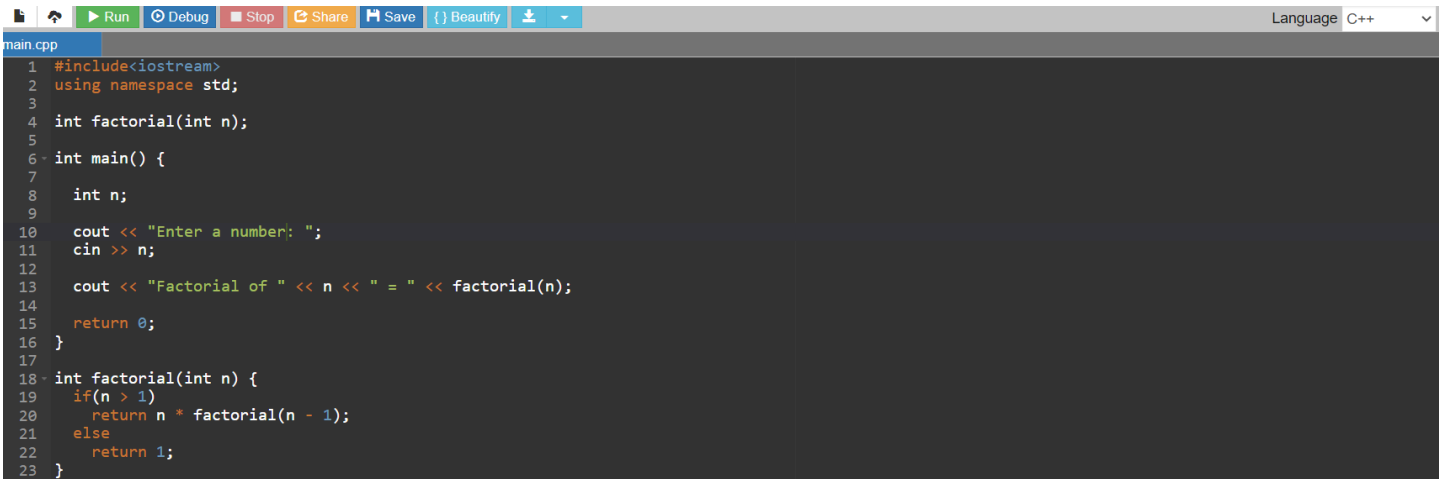
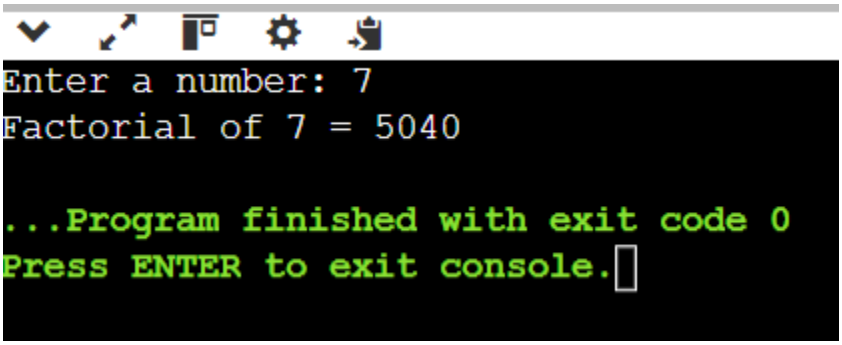
Programming

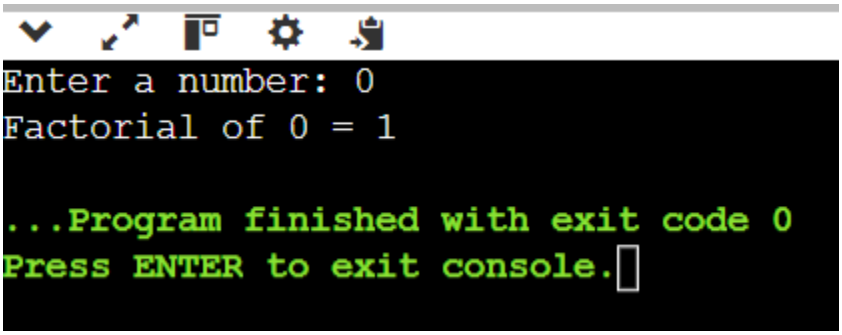
1. Factorial

Input



Output





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2. Square Numbers

Input

```cpp
#include <iostream>

int main() {
    int number;
    std::cout << "Enter a number: ";
    std::cin >> number;

    for (int i = 1; i <= number; ++i) {
        std::cout << i << " squared is " << i * i << std::endl;
    }

    return 0;
}
```

Output

```
Enter a number: 7
1 squared is 1
2 squared is 4
3 squared is 9
4 squared is 16
5 squared is 25
6 squared is 36
7 squared is 49


...Program finished with exit code 0
Press ENTER to exit console.
```

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3. Cube Numbers

Input

Run | Debug | Stop | Share | Save | { } Beautify | Language C++

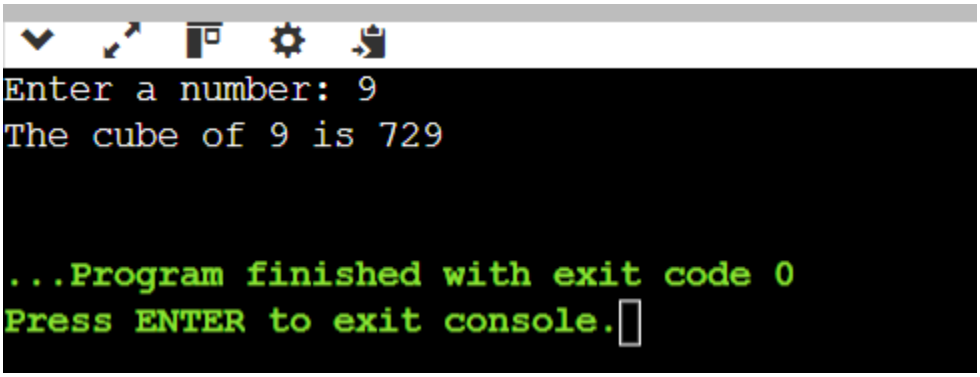
main.cpp

```cpp
#include <iostream>
using namespace std;

int main() {
    int number;
    cout << "Enter a number: ";
    cin >> number;
    int cube = number * number * number;
    cout << "The cube of " << number << " is " << cube << endl;
    return 0;
}

```

Output



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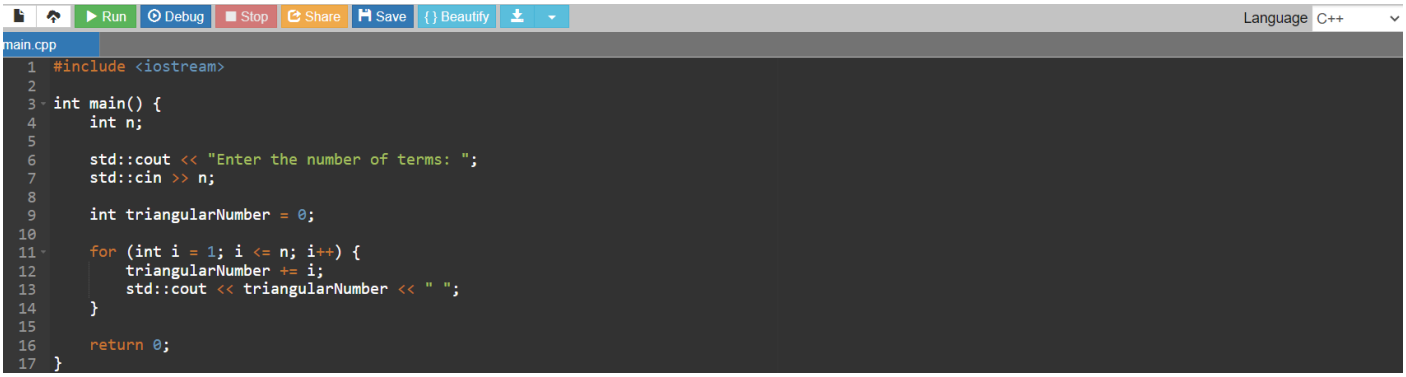
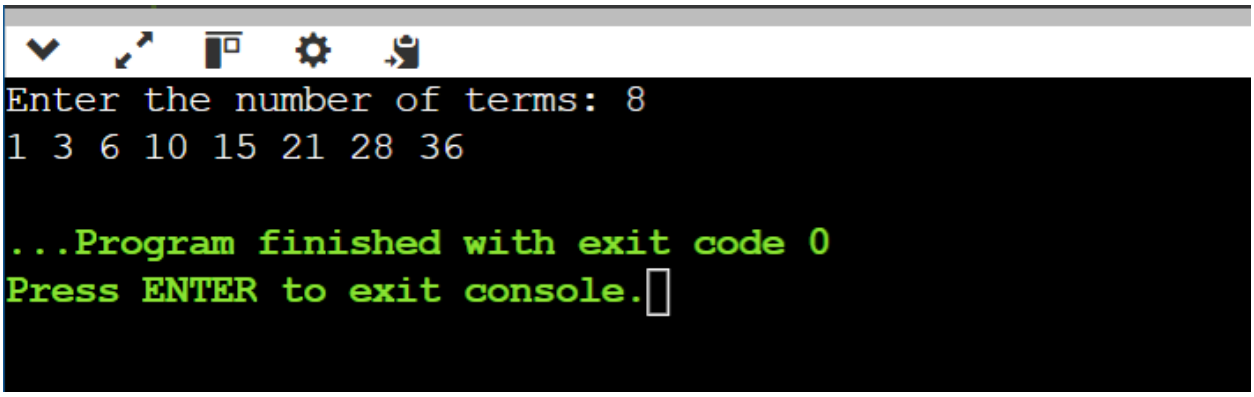
4. Triangular of Numbers

Input



Output



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