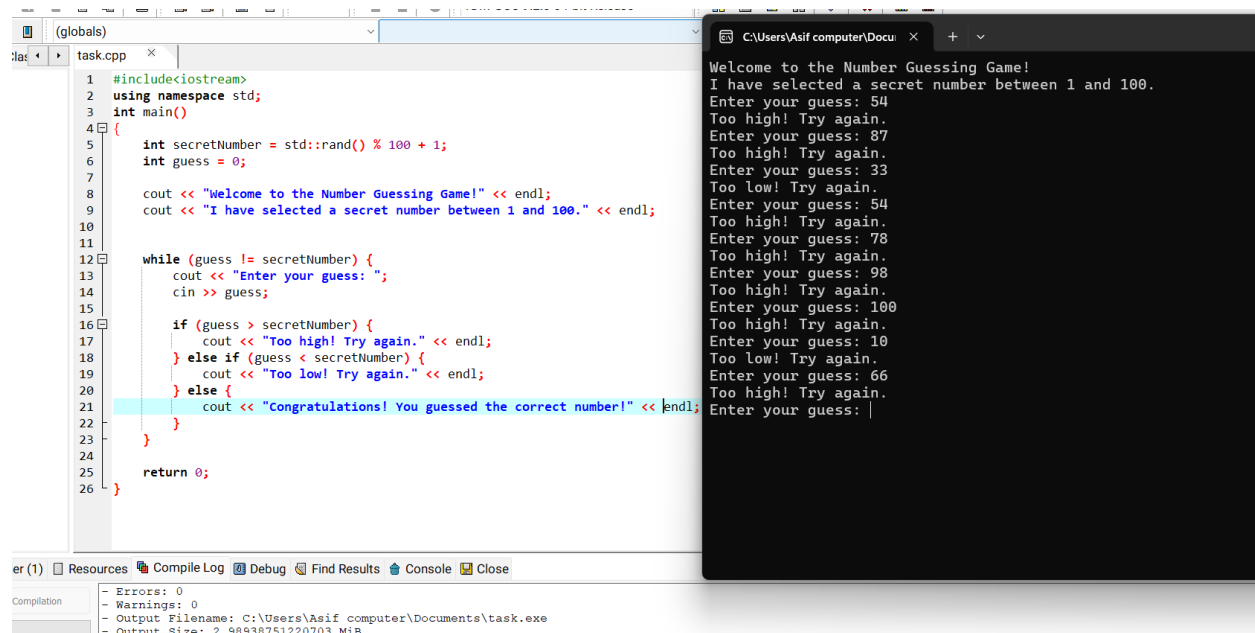


## Task 1



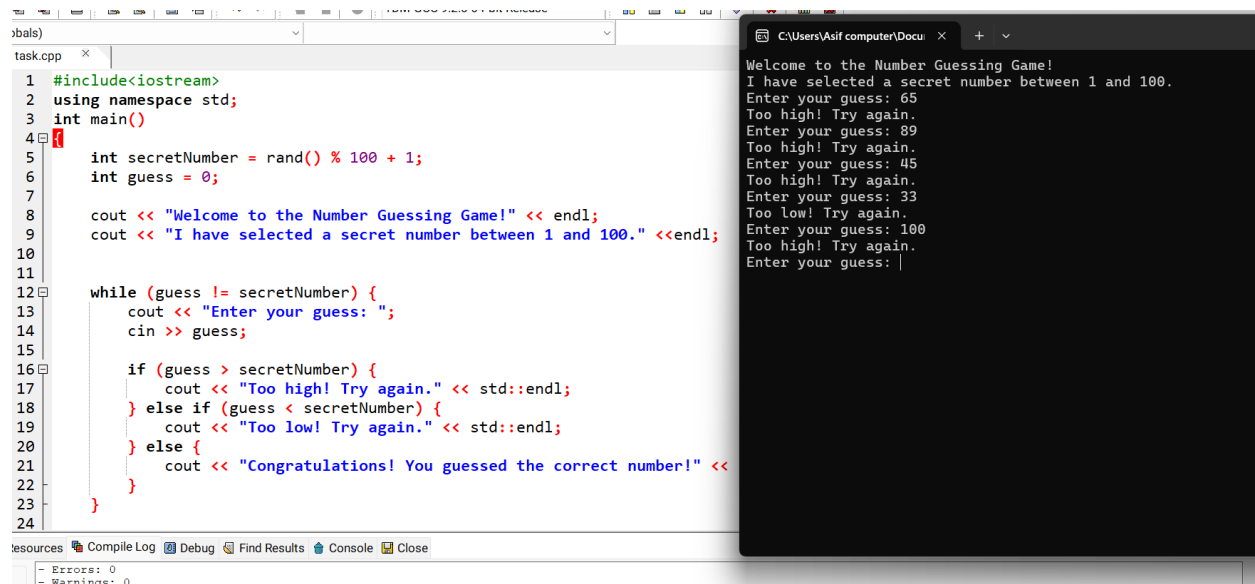
The screenshot shows a C++ IDE with a file named `task.cpp` open. The code implements a Number Guessing Game. It includes `<iostream>` and uses the `std` namespace. In `main()`, a secret number is generated using `std::rand() % 100 + 1` and a guess variable is initialized to 0. The game starts with a welcome message and a statement that the secret number is between 1 and 100. A `while` loop continues until the guess matches the secret number. Inside the loop, the user is prompted to enter a guess. If the guess is greater than the secret number, it says "Too high! Try again." If the guess is less, it says "Too low! Try again." If the guess is correct, it says "Congratulations! You guessed the correct number!". The console output on the right shows the game's execution with several guesses (54, 87, 33, 54, 78, 98, 100, 10, 66) and the corresponding feedback messages.

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int secretNumber = std::rand() % 100 + 1;
6     int guess = 0;
7
8     cout << "Welcome to the Number Guessing Game!" << endl;
9     cout << "I have selected a secret number between 1 and 100." << endl;
10
11
12     while (guess != secretNumber) {
13         cout << "Enter your guess: ";
14         cin >> guess;
15
16         if (guess > secretNumber) {
17             cout << "Too high! Try again." << endl;
18         } else if (guess < secretNumber) {
19             cout << "Too low! Try again." << endl;
20         } else {
21             cout << "Congratulations! You guessed the correct number!" << endl;
22         }
23     }
24
25     return 0;
26 }
```

Console Output:

```
Welcome to the Number Guessing Game!
I have selected a secret number between 1 and 100.
Enter your guess: 54
Too high! Try again.
Enter your guess: 87
Too high! Try again.
Enter your guess: 33
Too low! Try again.
Enter your guess: 54
Too high! Try again.
Enter your guess: 78
Too high! Try again.
Enter your guess: 98
Too high! Try again.
Enter your guess: 100
Too high! Try again.
Enter your guess: 10
Too low! Try again.
Enter your guess: 66
Too high! Try again.
Enter your guess: |
```

## Task 2



The screenshot shows a C++ IDE with a file named `task.cpp` open. The code implements a Number Guessing Game, similar to Task 1 but with some differences in the feedback messages. It includes `<iostream>` and uses the `std` namespace. In `main()`, a secret number is generated using `rand() % 100 + 1` and a guess variable is initialized to 0. The game starts with a welcome message and a statement that the secret number is between 1 and 100. A `while` loop continues until the guess matches the secret number. Inside the loop, the user is prompted to enter a guess. If the guess is greater than the secret number, it says "Too high! Try again." If the guess is less, it says "Too low! Try again." If the guess is correct, it says "Congratulations! You guessed the correct number!". The console output on the right shows the game's execution with several guesses (65, 89, 45, 33, 100) and the corresponding feedback messages.

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int secretNumber = rand() % 100 + 1;
6     int guess = 0;
7
8     cout << "Welcome to the Number Guessing Game!" << endl;
9     cout << "I have selected a secret number between 1 and 100." << endl;
10
11
12     while (guess != secretNumber) {
13         cout << "Enter your guess: ";
14         cin >> guess;
15
16         if (guess > secretNumber) {
17             cout << "Too high! Try again." << std::endl;
18         } else if (guess < secretNumber) {
19             cout << "Too low! Try again." << std::endl;
20         } else {
21             cout << "Congratulations! You guessed the correct number!" <<
22         }
23     }
24 }
```

Console Output:

```
Welcome to the Number Guessing Game!
I have selected a secret number between 1 and 100.
Enter your guess: 65
Too high! Try again.
Enter your guess: 89
Too high! Try again.
Enter your guess: 45
Too high! Try again.
Enter your guess: 33
Too low! Try again.
Enter your guess: 100
Too high! Try again.
Enter your guess: |
```

## Task 3

The screenshot shows a C++ IDE with a file named `task.cpp`. The code implements a countdown from 10 to 0. The output window shows the program's execution, including the countdown sequence and a confirmation message.

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int count = 10;
6
7     cout << "Starting countdown..." << endl;
8
9
10    while (count >= 0) {
11        cout << count << endl;
12        count--;
13    }
14
15    cout << "Countdown complete!" << endl;
16
17    return 0;
18 }
```

Output:

```
Starting countdown...
10
9
8
7
6
5
4
3
2
1
0
Countdown complete!

-----
Process exited after 9.909 seconds with return value 0
Press any key to continue . . . |
```

## Task 4

The screenshot shows a C++ IDE with a file named `task.cpp`. The code prints even numbers from 2 to 20. The output window shows the list of even numbers and a confirmation message.

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int number = 2;
6
7     cout << "Even numbers between 1 and 20 are: " << endl;
8
9
10    while (number <= 20) {
11        cout << number << endl;
12        number += 2;
13    }
14
15    return 0;
16 }
```

Output:

```
Even numbers between 1 and 20 are:
2
4
6
8
10
12
14
16
18
20

-----
Process exited after 8.541 seconds with return value 0
Press any key to continue . . . |
```

## Task 5

```
(globals)
task.cpp
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int number = 1;
6
7     cout << "Odd numbers between 1 and 20 are: " << endl;
8
9
10 while (number <= 20) {
11     cout << number << endl;
12     number += 2;
13 }
14
15 return 0;
16 }
```

```
C:\Users\Asif computer\Docu
Odd numbers between 1 and 20 are:
1
3
5
7
9
11
13
15
17
19

-----
Process exited after 9.28 seconds with return value 0
Press any key to continue . . .
```