

LAB 8 SUBMISSION

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SAP 64420

```
#include <iostream> // task 1
using namespace std;

int main() {
    int secretNumber = 7;
    int guess;

    do {
        cout << "Guess the secret number (between 1 and 10): ";
        cin >> guess;
    } while (guess != secretNumber);

    cout << "Congratulations! You guessed the secret number." << endl;

    return 0;
}
```

C:\Users\Tariq Mehmood\Desktop\Untitled5.exe

```
Guess the secret number (between 1 and 10): 8
Guess the secret number (between 1 and 10): 5
Guess the secret number (between 1 and 10): 7
Congratulations! You guessed the secret number.
```

```
-----
Process exited after 6.163 seconds with return value 0
Press any key to continue . . .
```

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```
- Output Filename: C:\Users\Tariq Mehmood\Desktop\Untitled5.exe
- Output Size: 2.98873424530029 MiB
- Compilation Time: 1.09s
```

```
#include <iostream> // task 2
using namespace std;

int main() {
    int num;
    unsigned long fac = 1;
    cout << "Enter a positive integer: ";
    cin >> num;

    if (num < 0) {
        cout << "Factorial of a negative number doesn't exist." << endl;
    } else {
        for (int i = 1; i <= num; ++i) {
            fac *= i;
        }
        cout << "Factorial of " << num << " = " << fac << endl;
    }

    return 0;
}
```

C:\Users\Tariq Mehmood\Desktop\Untitled1.exe

```
Enter a positive integer: 5
Factorial of 5 = 120
```

```
-----
Process exited after 1.506 seconds with return value 0
Press any key to continue . . .
```

```
#include <iostream> //task 3
using namespace std;
int main() {
    int countdown = 10;
    while (countdown >= 0) {
        cout << countdown << endl;
        --countdown;
    }

    return 0;
}
```

C:\Users\Tariq Mehmood\Desktop\Untitled2.exe

10
9
8
7
6
5
4
3
2
1
0

Process exited after 0.08139 seconds with return value 0
Press any key to continue . . .

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- Output Filename: C:\Users\Tariq Mehmood\Desktop\Untitled2.exe
- Output Size: 2.98873424530029 MiB
- Compilation Time: 1.13s

```
#include <iostream> //task 4 and 5
using namespace std;
int main() {
    int number = 2;
    while (number <= 20) {
        cout << number << endl;
        number += 2;
    }

    return 0;
}
```

C:\Users\Tariq Mehmood\Desktop\Untitled3.exe

2
4
6
8
10
12
14
16
18
20

Process exited after 0.06724 seconds with return value 0
Press any key to continue . . .

sources Compile Log Debug Find Results Console Close

- Output Filename: C:\Users\Tariq Mehmood\Desktop\Untitled3.exe
- Output Size: 2.98873424530029 MiB
- Compilation Time: 1.11s