



Instructions:

- 1- Create a folder with your full name on the desktop.
- 2- Create 9 Text Documents inside the folder and name them Q1, Q2 ... Q9.
- 3- Save your codes inside the Text Documents.

Q1. Write a program that uses a **for loop** to print the first 10 positive integers (1, 2, 3, ..., 10) to the console.

Q1.1: Modify Q1 and print numbers from (10 to 1)

Q1.2. Modify Q1 & 1.1 and use (While loop)

Q2. Write a C++ program that uses a for loop to print the even numbers between 1 and 50.

Q2.5: Modify Q2 and find how many even numbers are between 1-50.

Q3. Write a C++ program that finds the sum of 10 random numbers (use for loop)

Q4. Write a C++ program that uses a for loop to ask a user to input 5 numbers and find the square of each number.

Q5. Write a C++ program that asks users to input 5 numbers and check if the number is positive or negative. (Use while loop)

Q6. Write a C++ program that prompts the user to enter an integer and then calculates its factorial. (Example: 4! = 4*3*2*1)

Q7. Write a program to display the multiplication table for a given number using a for loop.

Enter a number: 3 3 x 1 = 3 3 x 2 = 6 3 x 3 = 9 ... 3 x 10 = 30





Q8- Write a C++ program that counts all the even and odd numbers within a range specified by the user, calculates the sum of all numbers in the range, and separately calculates the sums of the even and odd numbers. Use while loop.

Output example:

Enter lowest: **5** Enter highest: **60**

There are 28 odds and 28 even numbers. The sum of all is 1820, sum of even numbers is 924 and sum of odd numbers is 896

Q9. Write a C++ program to create a calculator that repeatedly performs calculations for any two numbers entered by the user and exits when the user chooses to stop using it. Use while loop.

Output example:

Enter Number 1: 5
Enter number 2: 8
Enter operation sign: +
5 + 8 = 13
Press Y or y to do another operation or any other key to exit. Y
Enter Number 1: 4
Enter number 2: 8
Enter operation sign: *
4 * 8 = 32
Press Y or y to do another operation or any other key to exit. N