Python for Beginners – Class 3 Homework

Exercise 1

Ask the user to input two numbers: the starting number and ending number. Using a **FOR loop**, calculate the **SUM** of all the numbers in between the starting and ending (including the start but not including the end).

<div align="center">

YOU MUST USE A FOR LOOP!!!

</div>

You may know some math formulas to calculate the sum, but please DO NOT use those formulas when writing the code, because it defeats the purpose of the exercise (to practice using the FOR loop)!!

Hint: Create a **sum** variable at the start of your code and set it to 0. Increase the sum by the **current count variable** from your FOR loop every time it loops through, then display the final sum at the end.

Sample input/output 1:
```
Enter the starting number: 5
Enter the ending number: 9
The sum is 26
```

Sample input/output 2:
```
Enter the starting number: -5
Enter the ending number: 3
The sum is -12
```

Exercise 2

Now, rewrite Exercise 1 using a **WHILE LOOP** instead!!

Hint: Create a **count** variable that is set to the **starting number**. Using a while loop, keep **adding** the count to the sum, then **increasing** the count by 1, until the count **exceeds** the ending number.