## 🐍 Python Playground Practice – For Loops and range()

**Instructions:**  
Use your Google Colab notebook to write your answers.  
First, **guess** what the code will do.  
Then **run it** to see if you were right!

### 🔤 Question 1: Letter by Letter

Write a for loop that prints each letter in the word "Banana".

**Hint:**  
Use:

for i in "Banana":

Then use the print function.

### 🔢 Question 2: Counting from Zero

Write a for loop using range(5) that prints the numbers it creates.  
**Hint:**  
range(5) will make the numbers 0, 1, 2, 3, 4.

### 🚀 Question 3: Start from a Number

Write a for loop using range(3, 7) that prints the numbers from 3 up to 6.  
**Hint:**  
The second number in range(start, stop) is **not included**.

### 🏃 Question 4: Skip Counting

Write a for loop using range(0, 20, 4) that prints every 4th number starting at 0, but less than 20.  
**Hint:**  
This will print numbers like: 0, 4, 8, 12, 16.

### 🍎 Question 5: Repeat a Word with a Loop

Write a for loop that prints "Yum!" 5 times.  
**Hint:**  
Use range(5) and print("Yum!") inside the loop.

### ❓ Question 6: Guess the Output

Look at this code:

for i in range(2):

print("Hi")

print("Bye")

What will be printed? Guess first, then run it in your Google Colab notebook.

**Hint:**  
Each loop runs both print statements before starting again.

### 🔄 Question 7: From 1 to 10

Write a for loop that prints the numbers from 1 to 10 (including 10).  
**Hint:**  
Use range(1, 11) — remember, Python stops **before** the stop number.

### 🧮 Question 8: Double the Numbers

Use a for loop with range(1, 6) to print **double** each number in the range.

**Hint:**  
Inside the loop, use print(i \* 2).

### 🎯 Question 9: Countdown!

Write a for loop that counts backwards from 5 down to 1.

**Hint:**  
Use range(5, 0, -1) for counting down.

### 🏆 Question 10: Sum It Up!

Write a program that:

1. Uses a for loop with range(1, 6)
2. Adds all the numbers together
3. Prints the final sum

**Hint:**  
Make a variable total = 0 before the loop, then add to it inside the loop.