

Code - Python

Language: Python

Topic: addition of first 10 numbers

Source Code

```
# Initialize a variable to store the sum of numbers
total_sum = 0
# Loop through the first 10 numbers
for i in range(1, 11):
    # Add each number to the total sum
    total_sum += i
    # Print the current number and the total sum
    print(f"Added {i}, Total sum: {total_sum}")
# Print the final total sum
print("The sum of the first 10 numbers is:", total_sum)
# Define a function to calculate the sum of the first n numbers
def sum_of_n_numbers(n):
    # Initialize a variable to store the sum of numbers
    total_sum = 0
    # Loop through the first n numbers
    for i in range(1, n + 1):
        # Add each number to the total sum
        total_sum += i
    # Return the total sum
    return total_sum
# Call the function with n = 10
result = sum_of_n_numbers(10)
# Print the result
print("The sum of the first 10 numbers using function is:", result)
```

Execution Output Success

```
Added 1, Total sum: 1
Added 2, Total sum: 3
```

```
Added 2, Total sum: 5
Added 3, Total sum: 6
Added 4, Total sum: 10
Added 5, Total sum: 15
Added 6, Total sum: 21
Added 7, Total sum: 28
Added 8, Total sum: 36
Added 9, Total sum: 45
Added 10, Total sum: 55
```

The sum of the first 10 numbers is: 55

The sum of the first 10 numbers using function is: 55