Day 3 Problems: Functions

Problem 1: Create a Welcome Function

Objective: Write a function that takes a name as input and prints "Welcome, [name]!".
Description: The function should simply greet the person with a welcome message.
Solution:pythonCopy code

```
def welcome(name):
    print("Welcome, " + name + "!")

welcome("Alice")
```

Problem 2: Multiply Two Numbers

Objective: Write a function that takes two numbers as input and returns their product.
Description: The function should multiply the two numbers together and return the result.
Solution:pythonCopy code

```
def multiply_numbers(num1, num2):
    return num1 * num2

result = multiply_numbers(4, 5)
print(result)
```

Problem 3: Square a Number

Objective: Write a function that takes a number as input and returns its square.
Description: The function should multiply the number by itself and return the result.
Solution:pythonCopy code

```
def square_number(num):
    return num * num

print(square_number(6))
```

Problem 4: Print a Message Multiple Times

Objective: Write a function that takes a message and a number as input and prints the message that many times.
Description: The function should use a loop to print the message the specified number of times.
Solution:pythonCopy code

```
def repeat_message(message, times):
    for i in range(times):
        print(message)

repeat_message("Hello!", 3)
```

Problem 5: Add Three Numbers

Objective: Write a function that takes three numbers as input and returns their sum.
Description: The function should add the three numbers together and return the result.
Solution:pythonCopy code

```
def add_three_numbers(a, b, c):
    return a + b + c

print(add_three_numbers(2, 3, 4))
```

Problem 6: Check if a Number is Positive

Objective: Write a function that takes a number as input and prints whether the number is positive, negative, or zero.
Description: The function should check the value of the number and print the appropriate message.

Solution:pythonCopy code

```python
def check_positive(num):
    if num > 0:
        print("The number is positive.")
    elif num < 0:
        print("The number is negative.")
    else:
        print("The number is zero.")

check_positive(5)
```