Assignment (Function)

1. Declare a div() function with two parameters. Then call the function and pass two numbers and display their division.

def div(a, b):

if b == 0:

return "Division by zero is not allowed."

return a / b

num1 = 10

num2 = 2

result = div(num1, num2)

print(f"Division of {num1} by {num2} is: {result}")

2. Declare a square() function with one parameter.Then call the function and pass one number and display the square of that number .

def square(num):

return num \*\* 2

num = 5

result = square(num)

print(f"The square of {num} is: {result}")

3. Using max() and min() functions display the maximum and minimum of 5 random numbers.

import random

random\_numbers = [random.randint(1, 100) for \_ in range(5)]

print(f"Random numbers: {random\_numbers}")

print(f"Maximum number: {max(random\_numbers)}")

print(f"Minimum number: {min(random\_numbers)}")

4. Accept a name from the user and display that in lower case using lower() function

name = input("Enter your name: ")

lower\_name = name.lower()

print(f"Your name in lowercase: {lower\_name}")

5. Write a lambda function that takes one argument and returns 'Positive' if the number is greater than 0, 'Negative' if it's less than 0, and 'Zero' if it's 0. Test it with different numbers.

check\_number = lambda x: "Positive" if x > 0 else "Negative" if x < 0 else "Zero"

numbers = [10, -5, 0] # Example numbers

for n in numbers:

print(f"The number {n} is {check\_number(n)}.")