PYTHON PROGRAMMING

LAB-5 ANSWERS

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

Code:

```
def div(x, y):# Declare a function named div that takes two parameters.
  return x / y
# Call the div() function with two numbers.
numerator = 10
denominator = 5
result = div(numerator, denominator)

print(f"The division of {numerator} by {denominator} is: {result}")
# Display the division result along with a description.
```

Output:

```
The division of 10 by 5 is: 2.0
```

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

Code:

```
# Number to be squared
number = 5 # taken number as 5.

squared_number = number ** 2 # Calculate the square.

print(f"The square of {number} is: {squared_number}")# Display the result with description.
```

Output:

```
The square of 5 is: 25
```

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

Code:

```
import random

random_numbers = [random.randint(1, 100) for _ in range(5)]
# Generate 5 random numbers.

print("Generated numbers:", random_numbers) # Display the generated numbers.


# Find and display the maximum and minimum of the generated numbers
max_number = max(random_numbers)
min_number = min(random_numbers)
```

```
print("Maximum number:", max_number) #print the maximun number.
print("Minimum number:", min_number)#print the minimun number
```

Output:

```
Generated numbers: [1, 79, 23, 13, 42]
Maximum number: 79
        Minimum number: 1
```

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

Code:

```
name = input("Enter your name: ")# Accept a name from the user.

lowercase_name = name.lower()# Convert the name to lowercase using lower() function.

print("Lowercase name:", lowercase_name)# Display the lowercase name along with a description.
```

Output:

```
Enter your name: KUSUMA N
    Lowercase name: kusuma
```