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PYTHON LAB 5: FUNCTIONS

"A function is a block of code which performs specific task and which only runs when it is called."

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

```python
def div(number1, number2):# declaring div() function and giving number1 and number2 as arguments
  return number1/number2 # returning the division of number1 / number2
number1 = int(input("Enter the number1 :")) # taking number1 value from user
number2 = int(input("Enter the number2 :")) # taking number2 value from user
division = div(number1, number2) # calling the function and passing 2 numbers and storing the result in division variable
print("The division of ", number1, "and", number2, " is :",division) # displaying the division result
```

Output:

```
Enter the number1 :36
Enter the number2 :6
The division of  36 and 6  is : 6.0
```

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

```python
def square(number):# declaring square() function and giving number as argument
  return number*number # returning square of number by multiplying same
number
number = int(input("Enter the number :"))# taking number value from user
square_of_the_number = square(number) # calling the function and
passing  number as parameter and storing the result in square_of_the_number
print("The square of the given number ", number, " is :",square_of_the_number) #
displaying the square of the number
```

Output:

```
Enter the number :6
The square of the given number  6  is : 36
```

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

```python
random_numbers = [10,5,3,8,15] # taking a list of 5 random numbers
maximum = max(random_numbers) # using max() function to get maximum value
from the given set and stored in maximum variable
minimum = min(random_numbers) # using min() function to get minimum value
from the given set and stored in minimum variable
print("The maximum number in the given random numbers is :",maximum) #
displaying maximum value
print("The minimum number in the given random numbers is :",minimum) #
displaying minimum value
```

Output:

```
The maximum number in the given random numbers is : 15
The minimum number in the given random numbers is : 3
```

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

```
name = input("Enter a name in upper case :")# accepting a name from user in
upper case
lower_case = name.lower() # using lower() function to display the name in lower
case
print("The lower case of the given name ",name, " is :",lower_case) # display the
name in lower case
```

Output:

```
Enter a name in upper case :SUMANTH
The lower case of the given name  SUMANTH  is : sumanth
```