

# Day 5: Functions in Python

## Assignment Questions:

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

Python

```
"add" is parameterised function declared with c and d parameters for
addition
def add(c,d):
    return c+d          #returns with addition of c and d

"sub" is parameterised function declared with c and d parameters for
subtraction
def sub(c,d):
    return c-d          #returns subtraction of c and d

"multi" is parameterised function declared with c and d parameters for
multiplication
def multi(c,d):
    return c*d          #returns multiplication of c and d

"div" is parameterised function declared with c and d parameters for
division
def div(c,d):
    return c/d          #returns division of c and d

#main() function is created
def main():
    print("Press 1 for Addition ")          #messeges for user
    print("Press 2 for Subtraction ")       #messeges for user
    print("Press 3 for Multiplication ")    #messeges for user
    print("Press 4 for Division")           #messeges for user

    c = int(input("Enter First number: "))  #taking first value from user
    d = int(input("Enter Second number: ")) #taking first value from user
    choice = input("Enter your choice:")    #Accepting choice from user
```

```

    if choice == "1":
        print("Addition is:", add(c,d))          #addition is printed for
choice==1

    elif choice == "2":
        print("Subtraction is:", sub(c,d))      #subtraction is printed
for choice==2

    elif choice == "3":
        print("Multiplication is:", multi(c,d)) #multiplication is printed
for choice==3

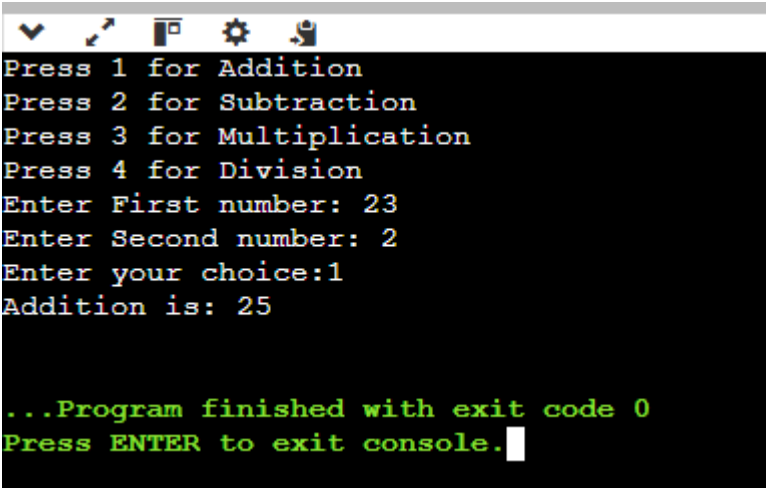
    elif choice == "4":
        #division is printed for
choice==4
        if d!=0:
            print("Division is:", div(c,d))
        else:
            print("0 is not accepted, please enter another number.")

    else :
        print("Invalid Choice")

main()
#main() function is called at the end

```

Output:



```

Press 1 for Addition
Press 2 for Subtraction
Press 3 for Multiplication
Press 4 for Division
Enter First number: 23
Enter Second number: 2
Enter your choice:1
Addition is: 25

...Program finished with exit code 0
Press ENTER to exit console.

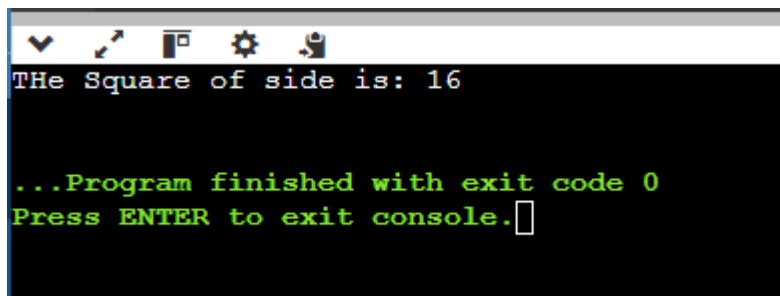
```

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

Python

```
def square(side):  
    sqr = side*side #formula for square is created  
    return sqr      #returned sqr variable  
result= square(4)  #result variable is used to pass value to parameter  
print("The Square of side is:",result) #output showing square of side
```

Output:

A screenshot of a terminal window with a black background and green text. The first line shows the output of the program: "The Square of side is: 16". The second line shows the program's completion message: "...Program finished with exit code 0". The third line shows a prompt for the user to press the ENTER key to exit the console: "Press ENTER to exit console." followed by a small square cursor icon.

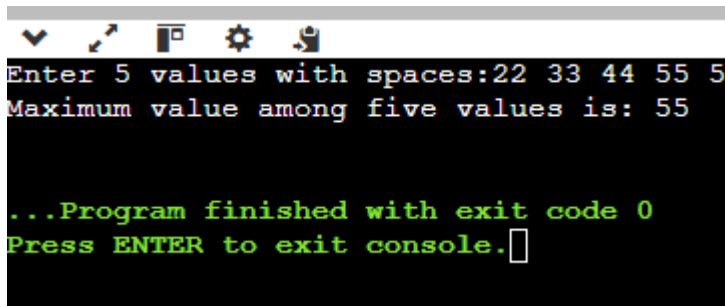
```
The Square of side is: 16  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

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

Python

```
#3. Using max() and min() functions display the maximum and minimum 5 random  
numbers.  
numbers = list(map(int, (input("Enter 5 values with spaces:").split())))  
s = len(numbers)  
if s==5:  
    maximum_value = max(numbers)  
    print("Maximum value among five values is:",maximum_value)  
  
else:  
    print("Expected values was 5")
```

Output:



```
Enter 5 values with spaces:22 33 44 55 5
Maximum value among five values is: 55

...Program finished with exit code 0
Press ENTER to exit console.
```

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

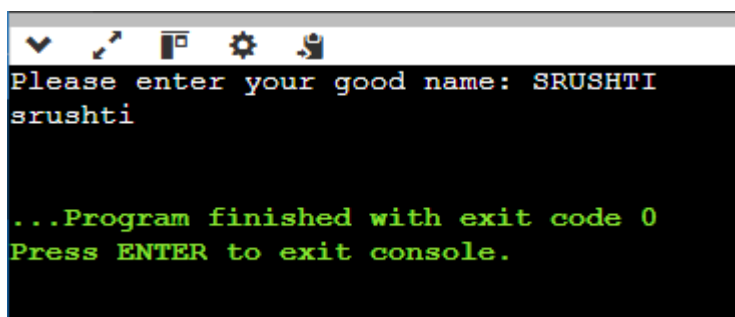
```
Python
# 4. Accept a name from the user and display that in lower case using
lower() function

#variable named as name to accept name in string format from user
name = input("Please enter your good name: ")

#lower() is a built in function to convert string into lower case
lower_case = name.lower()

#gives output lowercase string
print(lower_case)
```

Output:



```
Please enter your good name: SRUSHTI
srushti

...Program finished with exit code 0
Press ENTER to exit console.
```