Day 5: Functions in Python

Assignment Questions:

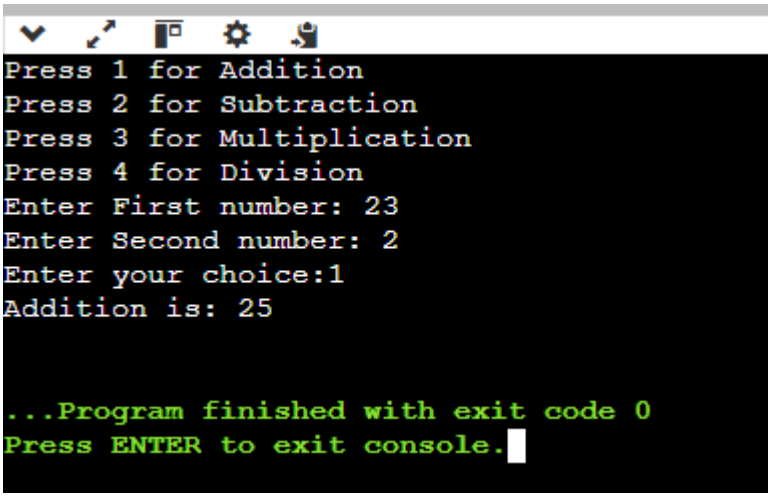
1. Declare a div() function with two parameters. Then call the function, pass two numbers, and display their division.

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
```

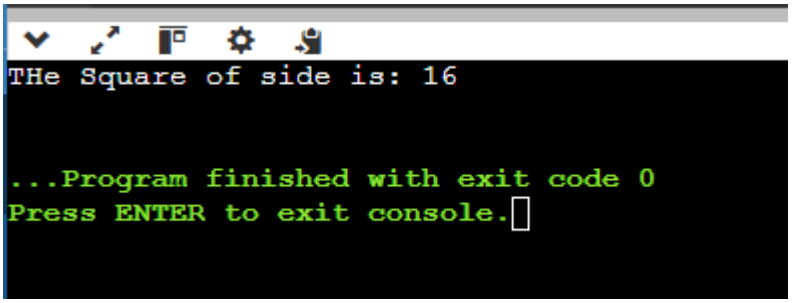
Output:



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
```

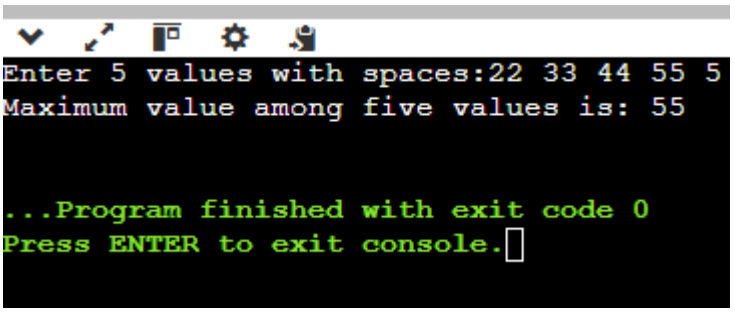
Output:



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:



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: