

Functions

1. Write a python program to create a simple function which prints "MySirG".

```

1 """Write a python program to create a
2 simple function which prints "MySirG"."""
3 def MySirG(n):
4     while (n>0):
5         n = n-1
6         print("MySirG")
7
8 num = int(input("Enter the number: "))
9 MySirG(num)
10

```

Terminal output:

```

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/AppData/Local/Programs/Python/Python311/python.exe c:/Users/kheral.aditya/Desktop/python/Python_Dic/function.py
Enter the number: 3
MySirG
MySirG
MySirG
PS C:\Users\kheral.aditya>

```

2. Write a python program to create a function which expects two arguments and print them in the function body.

```

11 """Write a python program to create a
12 function which expects two arguments
13 and print them in the function body."""
14
15 def Print(a,b):
16     print(a , b)
17
18 a=input("Enter the 1st input: ")
19 b=input("Enter the 2nd input: ")
20 Print(a,b)

```

Terminal output:

```

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/AppData/Local/Programs/Python/Python311/python.exe c:/Users/kheral.aditya/Desktop/python/Python_Dic/function.py
Enter the 1st input: Aditya
Enter the 2nd input: Kheral
Aditya Kheral
PS C:\Users\kheral.aditya>

```

3. Write a python program to create a function which expects an unknown number of arguments.

```

21 """Write a python program to create a
22 function which expects an unknown
23 number of arguments."""
24
25 def func2(*args):
26     print(*args)
27
28 li=[x for x in input().split(",")]
29 func2(*li)

```

Terminal output:

```

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/AppData/Local/Programs/Python/Python311/python.exe c:/Users/kheral.aditya/Desktop/python/Python_Dic/function.py
Aditya,Kheral,1,2,3,4,4,5,67,90
Aditya Kheral 1 2 3 4 4 5 67 90
PS C:\Users\kheral.aditya>

```

4. Write a python program to create a function which expects kwargs arguments.

```

29 """Write a python program to create a
30 function which expects kwargs arguments."""
31
32 def myFun(Name, Mid, Last):
33     print("Name:", Name)
34     print("Mid:", Mid)
35     print("Last:", Last)
36
37
38 kwargs = {
39     "Name": "Aditya",
40     "Mid": "NONE",
41     "Last": "Kheral"}
42 myFun(**kwargs)

```

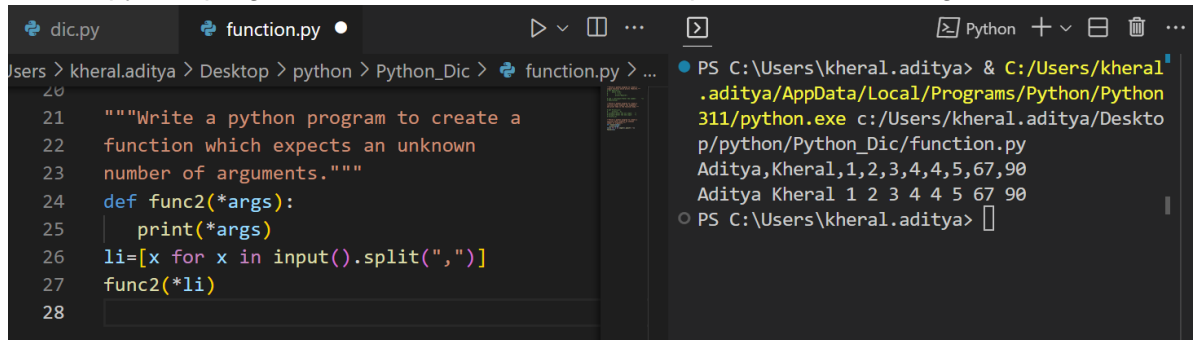
Terminal output:

```

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/AppData/Local/Programs/Python/Python311/python.exe c:/Users/kheral.aditya/Desktop/python/Python_Dic/function.py
Name: Aditya
Mid: NONE
Last: Kheral
PS C:\Users\kheral.aditya>

```

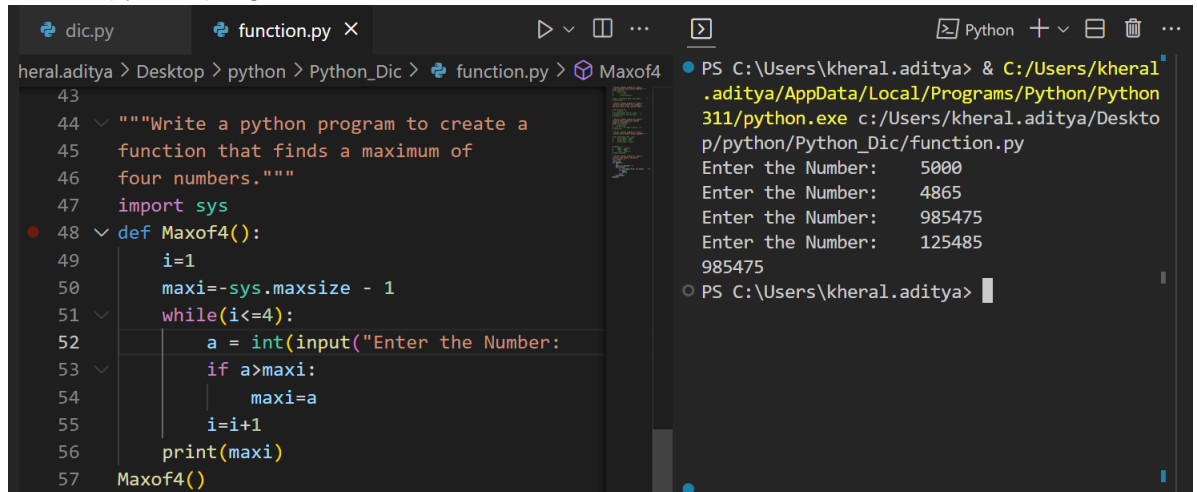
5. Write a python program to create a function which expects a list as an argument.



```
dic.py  function.py
Users > kheral.aditya > Desktop > python > Python_Dic > function.py > ...
21 """Write a python program to create a
22 function which expects an unknown
23 number of arguments."""
24 def func2(*args):
25     print(*args)
26 li=[x for x in input().split(",")]
27 func2(*li)
28
```

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/AppData/Local/Programs/Python/Python311/python.exe c:/Users/kheral.aditya/Desktop/python/Python_Dic/function.py
Aditya,Kheral,1,2,3,4,4,5,67,90
Aditya Kheral 1 2 3 4 4 5 67 90
PS C:\Users\kheral.aditya>

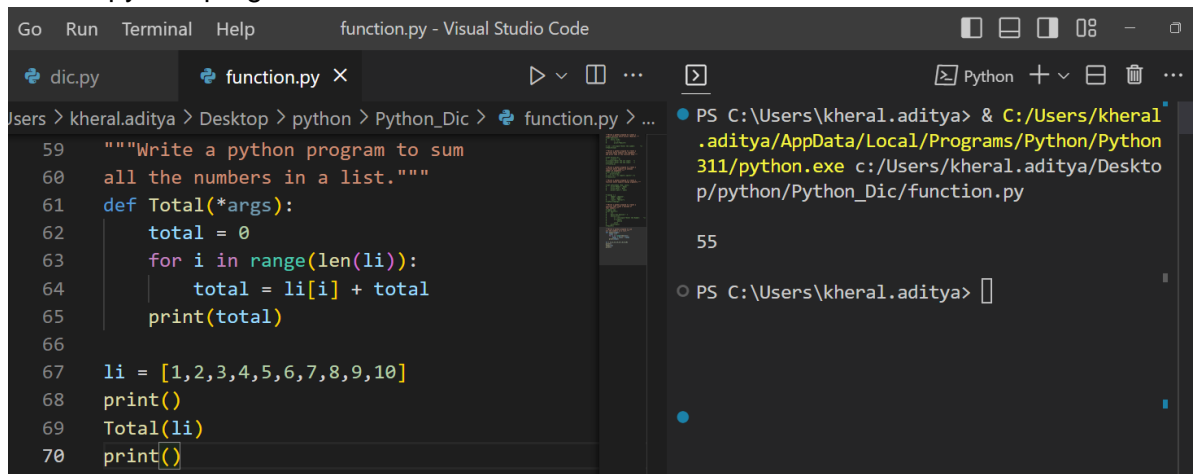
6. Write a python program to create a function that finds a maximum of four numbers.



```
dic.py  function.py X
heral.aditya > Desktop > python > Python_Dic > function.py > Maxof4
43
44 """Write a python program to create a
45 function that finds a maximum of
46 four numbers."""
47 import sys
48 def Maxof4():
49     i=1
50     maxi=-sys.maxsize - 1
51     while(i<=4):
52         a = int(input("Enter the Number:
53         if a>maxi:
54             maxi=a
55         i=i+1
56     print(maxi)
57 Maxof4()
```

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/AppData/Local/Programs/Python/Python311/python.exe c:/Users/kheral.aditya/Desktop/python/Python_Dic/function.py
Enter the Number: 5000
Enter the Number: 4865
Enter the Number: 985475
Enter the Number: 125485
985475
PS C:\Users\kheral.aditya>

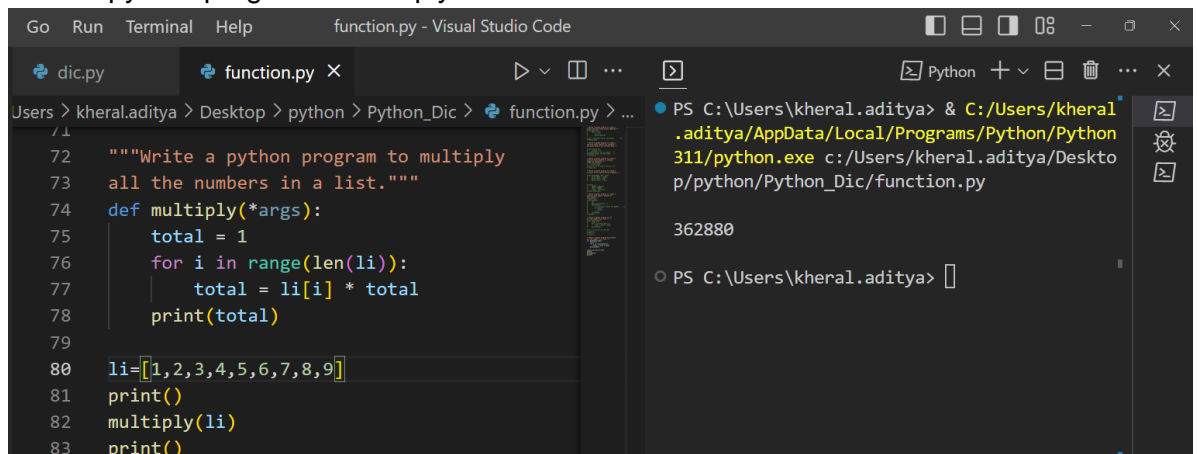
7. Write a python program to sum all the numbers in a list.



```
Go Run Terminal Help function.py - Visual Studio Code
dic.py  function.py X
Users > kheral.aditya > Desktop > python > Python_Dic > function.py > ...
59 """Write a python program to sum
60 all the numbers in a list."""
61 def Total(*args):
62     total = 0
63     for i in range(len(li)):
64         total = li[i] + total
65     print(total)
66
67 li = [1,2,3,4,5,6,7,8,9,10]
68 print()
69 Total(li)
70 print()
```

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/AppData/Local/Programs/Python/Python311/python.exe c:/Users/kheral.aditya/Desktop/python/Python_Dic/function.py
55
PS C:\Users\kheral.aditya>

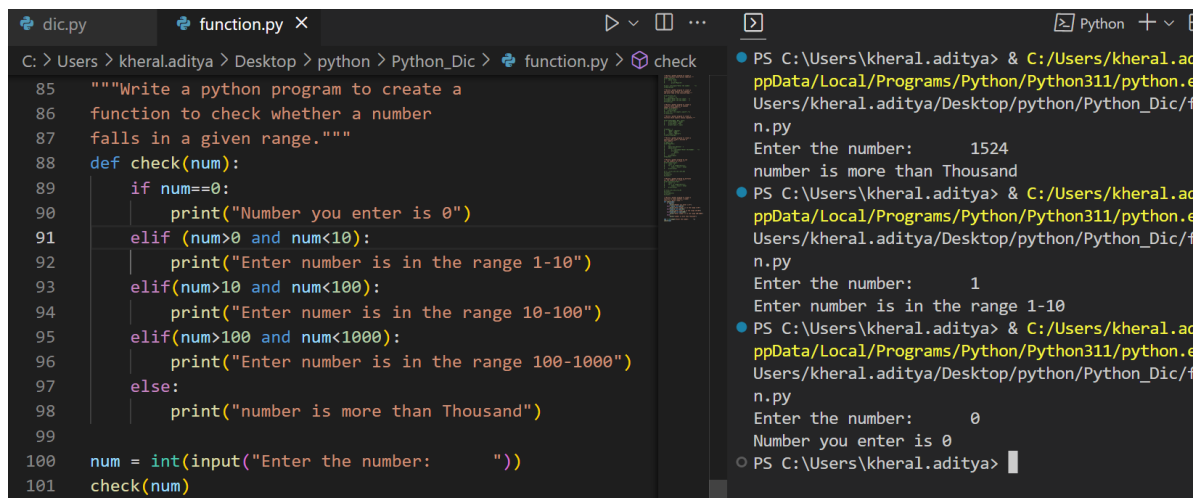
8. Write a python program to multiply all the numbers in a list.



```
Go Run Terminal Help function.py - Visual Studio Code
dic.py  function.py X
Users > kheral.aditya > Desktop > python > Python_Dic > function.py > ...
72 """Write a python program to multiply
73 all the numbers in a list."""
74 def multiply(*args):
75     total = 1
76     for i in range(len(li)):
77         total = li[i] * total
78     print(total)
79
80 li=[1,2,3,4,5,6,7,8,9]
81 print()
82 multiply(li)
83 print()
```

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/AppData/Local/Programs/Python/Python311/python.exe c:/Users/kheral.aditya/Desktop/python/Python_Dic/function.py
362880
PS C:\Users\kheral.aditya>

9. Write a python program to create a function to check whether a number falls in a given range.



```
dic.py function.py X
C: > Users > kheral.aditya > Desktop > python > Python_Dic > function.py > check

85 """Write a python program to create a
86 function to check whether a number
87 falls in a given range."""
88 def check(num):
89     if num==0:
90         print("Number you enter is 0")
91     elif (num>0 and num<10):
92         print("Enter number is in the range 1-10")
93     elif(num>10 and num<100):
94         print("Enter number is in the range 10-100")
95     elif(num>100 and num<1000):
96         print("Enter number is in the range 100-1000")
97     else:
98         print("number is more than Thousand")
99
100 num = int(input("Enter the number:   "))
101 check(num)
```

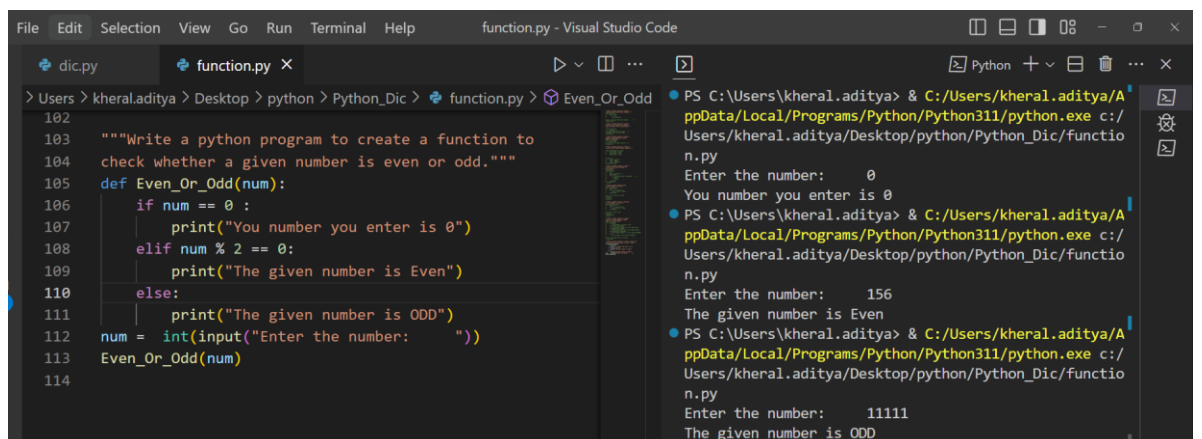
PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/A
ppData/Local/Programs/Python/Python311/python.exe c:/
Users/kheral.aditya/Desktop/python/Python_Dic/f
n.py
Enter the number: 1524
number is more than Thousand

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/A
ppData/Local/Programs/Python/Python311/python.exe c:/
Users/kheral.aditya/Desktop/python/Python_Dic/f
n.py
Enter the number: 1
Enter number is in the range 1-10

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/A
ppData/Local/Programs/Python/Python311/python.exe c:/
Users/kheral.aditya/Desktop/python/Python_Dic/f
n.py
Enter the number: 0
Number you enter is 0

PS C:\Users\kheral.aditya>

10. Write a python program to create a function to check whether a given number is even or odd.



```
File Edit Selection View Go Run Terminal Help function.py - Visual Studio Code
dic.py function.py X
> Users > kheral.aditya > Desktop > python > Python_Dic > function.py > Even_Or_Odd

102
103 """Write a python program to create a function to
104 check whether a given number is even or odd."""
105 def Even_Or_Odd(num):
106     if num == 0 :
107         print("You number you enter is 0")
108     elif num % 2 == 0:
109         print("The given number is Even")
110     else:
111         print("The given number is ODD")
112 num = int(input("Enter the number:   "))
113 Even_Or_Odd(num)
114
```

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/A
ppData/Local/Programs/Python/Python311/python.exe c:/
Users/kheral.aditya/Desktop/python/Python_Dic/functio
n.py
Enter the number: 0
You number you enter is 0

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/A
ppData/Local/Programs/Python/Python311/python.exe c:/
Users/kheral.aditya/Desktop/python/Python_Dic/functio
n.py
Enter the number: 156
The given number is Even

PS C:\Users\kheral.aditya> & C:/Users/kheral.aditya/A
ppData/Local/Programs/Python/Python311/python.exe c:/
Users/kheral.aditya/Desktop/python/Python_Dic/functio
n.py
Enter the number: 11111
The given number is ODD