

Arm: - worte a Python code, for implementens uses

Theory: -

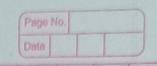
A function is a block of code which only sur when it is called. You can pass date , known as pasameters, ento a function can

Functions that we define ourselves to do certain tunckow.

Functions that readily come with Python are called built-in functions. If we use functions wasten by others in the form of library iteanse teamed as library function. All the Other functions that we write on our own fall under user-defend functions. 30, our user dring functions could be a library function to someone else.

Advantages -

Used-defined functions help to decompose along program into small segments which makes program easy to understand, mointain and debug programman working on large project can divide the wincupad by making different functions.



Anonymous functions—
In Python, an anonymous function is a function that is defined without a name. While normal functions are defined using. def! keyword in Python, anonymous functions are defined using the lambda keyword. Hence, anonymous functions are also called lambda functions.

Syntax!

lambda arguements: expression

Programs:

A. Write a python code for addition of 2 numbers using a function.

Code:

Output:

Num 1 - 894

Num 2 0 279

B. Write a python code to identify if a given number is even or odd using a function.

Code:

```
File Edit Selection View Go Run Terminal Help

oddevenfunc.py > 

oddevenfunc.py > 

num=int(input("Enter a number for check odd or even: "))

def find_Evenodd(num):

if (num&1==1):
 print(num, "is an odd number");

else:
 print(num, "is an even number");

find_Evenodd(num);
```

Output:

Case 1: If number is odd (1089)

Case 2: If number is even (8444)

```
File Edit Selection View Go Run Terminal Help oddevenfunc.py-Python-Visual Studio Code

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Windows PowerShell
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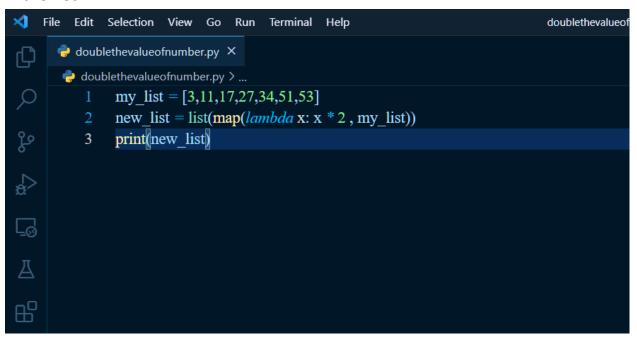
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS E:\Python> & "C:/Program Files/Python310/python.exe" e:/Python/oddevenfunc.py
Enter a number for check odd or even: 8444

8444 is an even number
PS E:\Python>
```

C. Write a python code for Lambda anonymous function.

Code: Here we have written a program to double the value of each number in the list.



Output:

Conclusion:

We have understood and performed the implementation of User defined and Anonymous Functions.