**9. Write a python program to implement functions.**

**Aim:** To create a python program to implement functions.

Description: In python, the functions are created using the def keyword. The functions can accept () and more parameter/arguments within parentheses. And functions can return values using the return statement. To execute functions we call it by its name followed by parentheses.

In this program we have demonstrated working of functions in python by creating the following functions:

Calculate \_circle\_area ()

Greet

Is\_even\_or\_odd ()

Whose values are given as arguments during runtime. These functions calculate the area of a rectangle by area=length\*width and area for circle by area of a rectangle by area=pi\*radius^2 and greets the user by printf function and determines weather the number is odd or even using the if-else block statement respectively, and all the resultant values are pointed.

**Code:**

def calcualte\_rectangle\_area(length,width):

area=length\*width

return area

def calculate\_circle\_area(radius):

import math

area=math.pi\*radius\*\*2

return area

def greet(name):

print(f"Hello,{name}!")

def is\_even\_or\_odd(number):

if number%2==0:

return "Even"

else:

return "Odd"

if \_\_name\_\_=="\_\_main\_\_":

length=5

width=3

rectangle\_area=calcualte\_rectangle\_area(length,width)

print(f"Rectangle Area:{rectangle\_area}")

radius=4

circle\_area=calculate\_circle\_area(radius)

print(f"Circle Area:{circle\_area}")

name="Your Name"

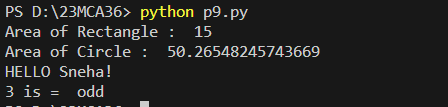
greet(name)

number=7

result=is\_even\_or\_odd(number)

print(f" {number} is {result}")

**Output:**

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