**PYTHON FOR ANALYTICS ASSIGNMENT**

**[DS7A-707]**

WEEK-2

**MASTER OF TECHNOLOGY**

In

**DATA SCIENCE**

***Submitted by***

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***Submitted To***

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**Indore (M.P.)**

# Objective (a): Creating a Python class named Circle constructed by a radius and two method which will compute the area and the perimeter of a circle.

***Code#***

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| *""" Created on Sat Sep 10 14:59:14 2022  @author: Rahul Sharma M.Tech(Data Science) """* '''Objective: Create a Python class named Circle constructed by a radius and two methods  which will compute the area and the perimeter of a circle'''   from math import pi # Creating Class named Circle() class Circle():  def \_\_init\_\_(self):  self.r = float(input("Enter radius of circle :")) # defining first method area of a circle  def area(self):  print("The Area of Circle is:", pi\*self.r\*self.r) # defining second method perimeter of a circle   def perimeter(self):  print("The Perimeter of circle is:", 2\*pi\*self.r)  C = Circle() C.area() C.perimeter() |

***Output:***

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| *C:\Users\rjrah\AppData\Local\Programs\Python\Python310\python.exe C:\Users\rjrah\PycharmProjects\PFA-Week-2\Circle.py*  *Enter radius of circle :8*  *The Area of Circle is: 201.06192982974676*  *The Perimeter of circle is: 50.26548245743669*  *Process finished with exit code 0* |

# Objective(b): Creating a Python class named Rectangle constructed by a length and width and a method which will compute the area of a rectangle.

***Code#***

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| *""" Created on Sat Sep 10 15:43:43 2022  @author: Rahul Sharma M.Tech(Data Science) """* """Objective: Create a Python class named Rectangle constructed by a length and width  and a method which will compute the area of a rectangle. """  """Creating a Python class named Rectangle"""  class Rectangle():  def \_\_init\_\_(self):  self.l= float(input("Enter the length of rectangle:"))  self.b=float(input("Enter the width of rectangle:"))  def area(self):  print("The Area of Circle is:", self.l\*self.b) R=Rectangle() R.area() |

***Output:***

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| *C:\Users\rjrah\AppData\Local\Programs\Python\Python310\python.exe C:\Users\rjrah\PycharmProjects\PFA-Week-2\Rectangle.py*  *Enter the length of rectangle:8*  *Enter the width of rectangle:6*  *The Area of Circle is: 48.0*  *Process finished with exit code 0* |

***GitHub-Repository:***

This link redirect to my Assignment’s source code repository on GitHub

[*https://github.com/cse-rahulsharma/PFA-Week-2.git*](https://github.com/cse-rahulsharma/PFA-Week-2.git)