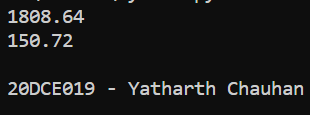
**PRACTICAL – (9.1)**

**AIM: Write a Python class named Circle constructed by a radius and two methods which will compute the area and the perimeter of a circle.**

**PROGRAM:**

|  |
| --- |
| pi = 3.14  class Circle():  def \_\_init\_\_(self, r):  self. radius = r  def area(self):  return self.radius\*\*2\*pi  def peri(self):  return self.radius\*pi\*2  NewCircle = Circle(24)  print(NewCircle.area())  print(NewCircle.peri())  print("\n20DCE019 - Yatharth Chauhan") |

**OUTPUT:**

****

**CONCLUSION:** In this practical, we learned to use and define function in python program.

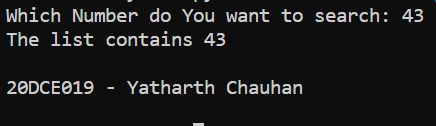
**PRACTICAL – (9.2)**

**AIM: Write a function that takes an ordered list of numbers (a list where the elements are in order from smallest to largest) and another number. The function decides whether or not the given number is inside the list and returns (then prints) an appropriate Boolean.**

**PROGRAM:**

|  |
| --- |
| a = [1, 3, 5, 30, 42, 43, 500]  q = int(input('Which Number do You want to search: '))  flag = 0  while a != []:  mid = int(len(a)/2)  if q == a[mid]:  print('The list contains', q)  flag = 1  break  elif q > a[mid]:  del a[:mid+1]  elif q < a[mid]:  del a[mid:]  if flag == 0:  print('The list does not contain ', q)  print("\n20DCE019 - Yatharth Chauhan") |

**OUTPUT:**

****