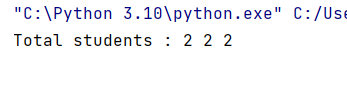
**-: Practical Set – 9 :-**

1. Write a Python program to create class KSV with attributes like class variable cnt, instance variables x and y, instance methods get\_value and print\_value.

class KSV:  
 cnt = 0  
 def \_\_init\_\_(self, x, y):  
 self.x = x  
 self.y = y  
 KSV.cnt += 1  
 def get\_value(self):  
 return self.x, self.y  
 def print\_value(self):  
 print("x:", self.x)  
 print("y:", self.y)  
   
std1 = KSV(10, 5)  
std2 = KSV(4, 8)  
print(f"Total students : {std1.cnt} {std2.cnt} {KSV.cnt}")

**OUTPUT :**



1. Write a python program to demonstrate overloading of add (+) operator.

class Number:  
 def \_\_init\_\_(self, value):  
 self.value = value  
 def \_\_add\_\_(self, other):  
 if isinstance(other, Number):  
 return Number(self.value + other.value)  
 elif isinstance(other, int) or isinstance(other, float):  
 return Number(self.value + other)  
 else:  
 raise TypeError("Unsupported operand type(s) for +: '{}' and '{}'".format(type(self).\_\_name\_\_, type(other).\_\_name\_\_))  
 def \_\_str\_\_(self):  
 return str(self.value)  
  
n1 = Number(10)  
n2 = Number(20)  
n3 = n1 + n2   
n4 = n1 + 5   
print(n3)   
print(n4)

**OUTPUT :**

