## Problem -1

```
class Student(object):
    def __init__(self, n, r, a, g, b, s):
        self.name = n
        self.reg = r
        self.age = a
        self.gender = g
        self.branch = b
        self.sem = s
    def print_details(self):
        print("Name of student = ", self.name)
        print("Reg no. of student = ", self.reg)
        print("Age of student = ", self.age)
        print("Gender of student = ", self.gender)
        print("Branch of student = ", self.branch)
        print("Semester of student = ", self.sem)
class StudentResultInfo(Student):
    def __init__(self,n, r, a, g, b, s, tm, per, gr):
        self.total_marks = tm
        self.percentage = per
        self.grade = gr
        Student.__init__(self, n, r, a, g, b, s)
    def print_info(self):
        print("Total grade of the student: ", self.tm)
        print("Percentage of student: ", self.per)
        print("Grades of student: ", self.gr)
Object = StudentResultInfo('Rajesh', 78, 19, 'Male', 2019, '5th', 485, 80.83, 'A')
Object.print_details()
Object.print_info
     Name of student = Rajesh
     Reg no. of student = 78
     Age of student = 19
     Gender of student = Male
     Branch of student = 2019
     Semester of student = 5th
     <bound method StudentResultInfo.print info of < main .StudentResultInfo object at (</pre>
```

## Problem-2

```
class PDFs:
    def __init__(self, creator, description, size):
        self.creator = creator
        self.description = description
        self.size = size

def displayInfo(self):
    print("Created by:",self.creator)
    print("Description:", self.description)
```

```
print("File size (in KBs):", self.size)
  def sizeLimit(self):
    if self.size > 256:
      print("Size exceeds threshold.\n")
      print("Size is within the threshold.\n")
class Pictures(PDFs):
  def __init__(self, creator, description, size, dimension):
    super().__init__(creator, description, size)
    self.dimension = dimension
  def displayPicInfo(self):
    self.displayInfo()
    print("Dimensions (in pixels):", self.dimension)
  def dimensionLimit(self):
    if self.dimension>2000:
      print(" high dimension!\n")
    else:
      print(" dimensions are fine.\n")
pdf1 = PDFs("Hem", "xyz", 109)
pdf1.displayInfo()
pdf1.sizeLimit()
print()
img = Pictures("ang", "abcd", 43265, 2134)
img.displayPicInfo()
img.dimensionLimit()
     Created by: Hem
     Description: xyz
     File size (in KBs): 109
     Size is within the threshold.
     Created by: ang
     Description: abcd
     File size (in KBs): 43265
     Dimensions (in pixels): 2134
      high dimension!
Problem -3
class Vehicle:
    def __init__(self, n, m, c=50):
        self.name = n
        self.mileage = m
```

self.capacity = c

def print details(self):

print(f"Vehicle Name: {self.name}")
print(f"Mileage: {self.mileage}")

```
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        print(f"Capacity: {self.capacity}")
    def fare(self):
        return self.capacity * 100
class Bus(Vehicle):
    def fare(self):
        total_fare = 1.1 * Vehicle.fare(self)
        return total_fare
    def print_details(self):
        Vehicle.print_details(self)
obj = Bus("Ram-pyari", 18, 50)
obj.print_details()
print(f"Total fare = {obj.fare()}")
     Vehicle Name: Ram-pyari
     Mileage: 18
     Capacity: 50
     Total fare = 5500.0
```

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