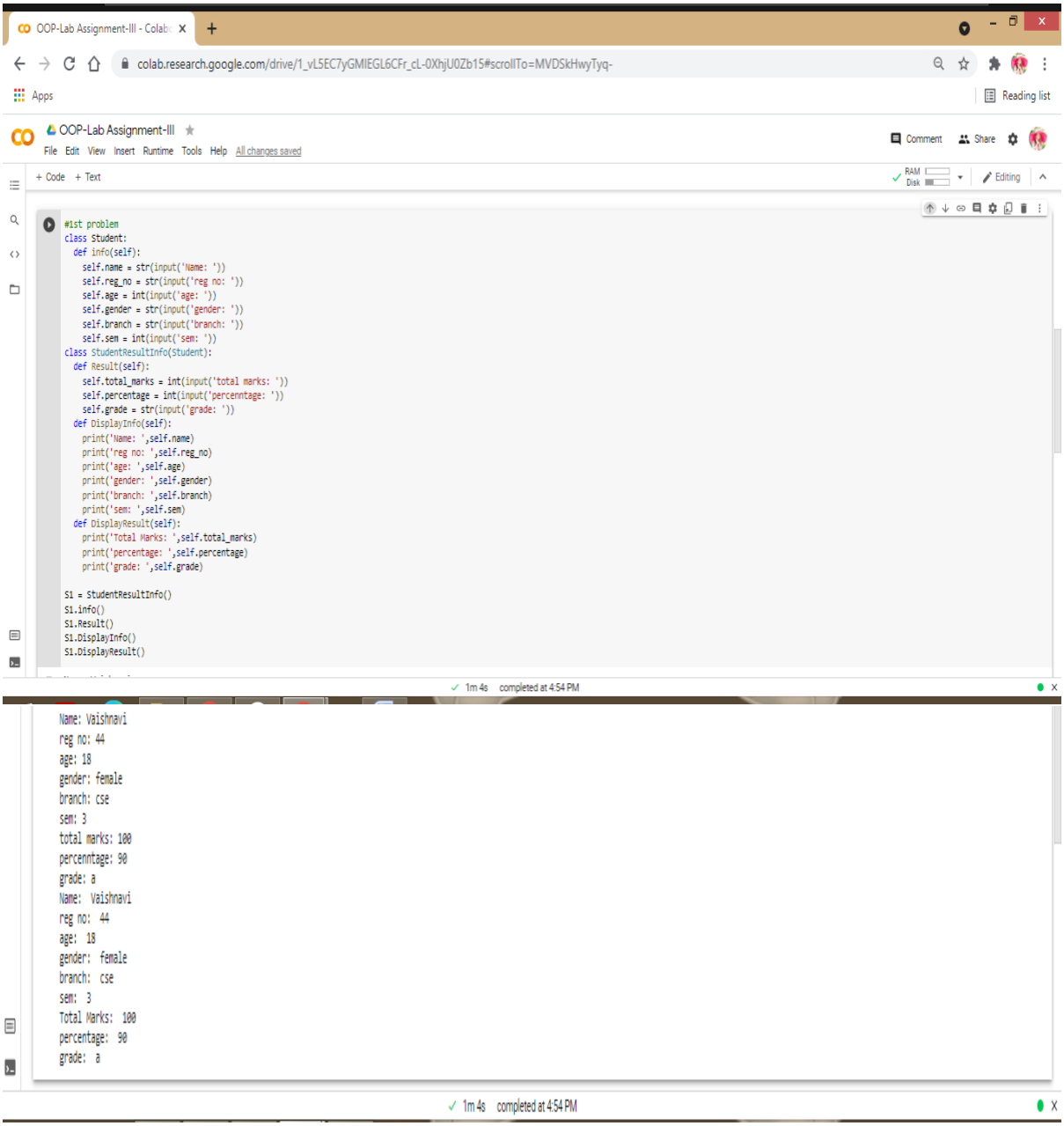
Object Oriented Programming

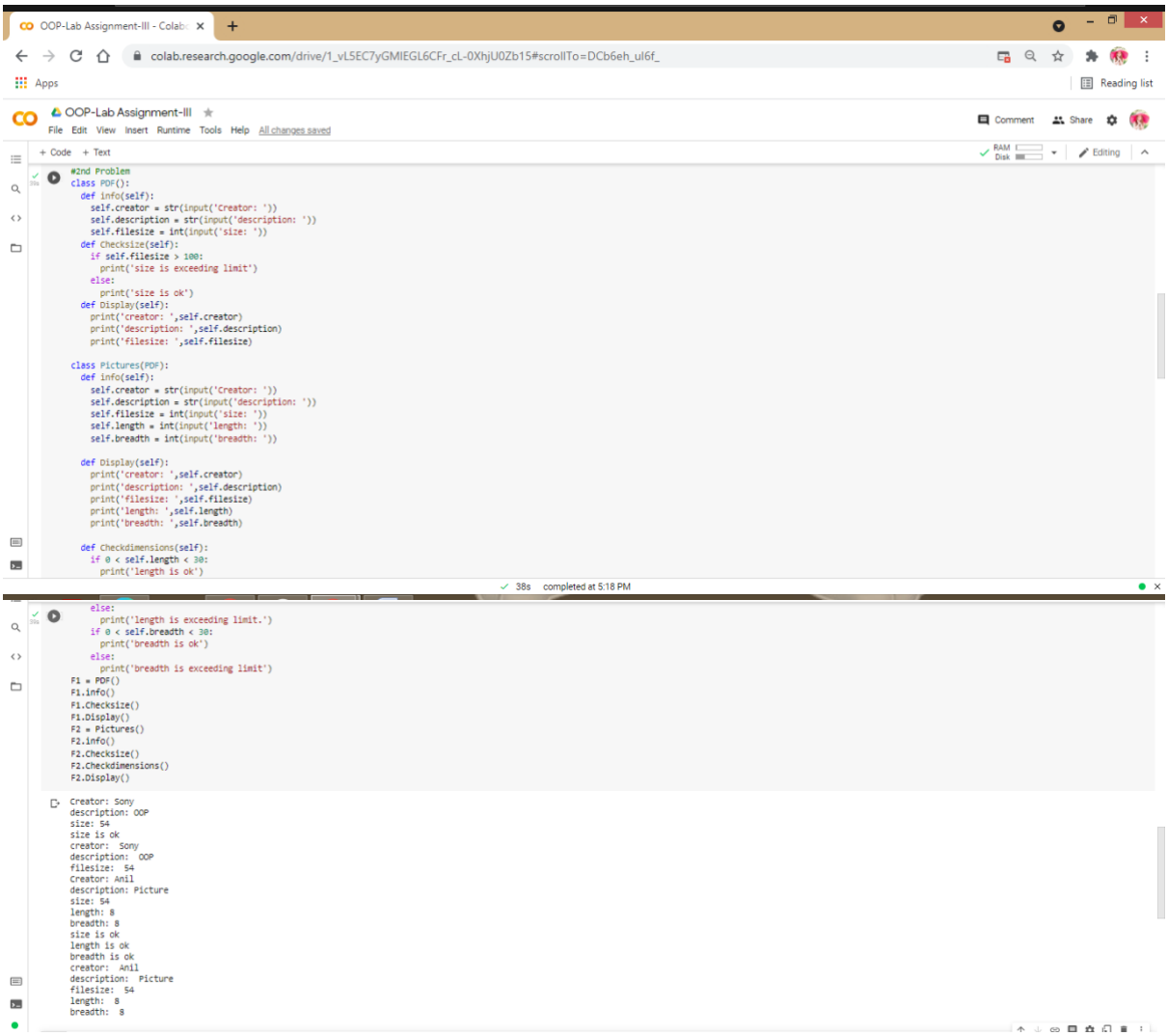
Lab Assignment –III

Name: - E.Vaishnavi
RegNo: 20BCS044

Problem-1 Solution:-



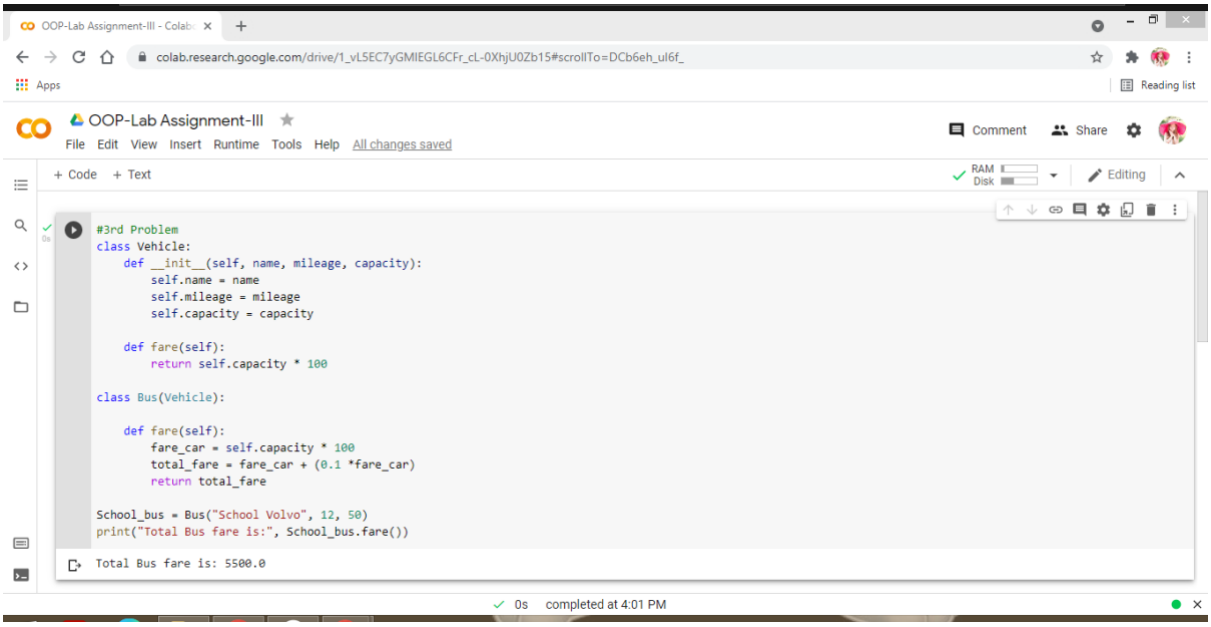
Problem-2 Solution:-



```
#2nd Problem
class PDF():
  def info(self):
    self.creator = str(input('Creator: '))
    self.description = str(input('description: '))
    self.filesize = int(input('size: '))
  def Checksize(self):
    if self.filesize > 100:
      print('size is exceeding limit')
    else:
      print('size is ok')
  def Display(self):
    print('creator: ',self.creator)
    print('description: ',self.description)
    print('filesize: ',self.filesize)

class Pictures(PDF):
  def info(self):
    self.creator = str(input('Creator: '))
    self.description = str(input('description: '))
    self.filesize = int(input('size: '))
    self.length = int(input('length: '))
    self.breadth = int(input('breadth: '))

  def Display(self):
    print('creator: ',self.creator)
    print('description: ',self.description)
    print('filesize: ',self.filesize)
    print('length: ',self.length)
    print('breadth: ',self.breadth)

  def Checkdimensions(self):
    if 0 < self.length < 30:
      print('length is ok')
    else:
      print('length is exceeding limit.')
    if 0 < self.breadth < 30:
      print('breadth is ok')
    else:
      print('breadth is exceeding limit')
F1 = PDF()
F1.info()
F1.Checksize()
F1.Display()
F2 = Pictures()
F2.info()
F2.Checksize()
F2.Checkdimensions()
F2.Display()
```

```
Creator: Sony
description: OOP
size: 54
size is ok
creator:  Sony
description:  OOP
filesize:  54
Creator: Anil
description: Picture
size: 54
length: 8
breadth: 8
size is ok
length is ok
breadth is ok
creator:  Anil
description:  Picture
filesize:  54
length:  8
breadth:  8
```

Problem-3 Solution:-



```
#3rd Problem
class Vehicle:
    def __init__(self, name, mileage, capacity):
        self.name = name
        self.mileage = mileage
        self.capacity = capacity

    def fare(self):
        return self.capacity * 100

class Bus(Vehicle):

    def fare(self):
        fare_car = self.capacity * 100
        total_fare = fare_car + (0.1 *fare_car)
        return total_fare

School_bus = Bus("School Volvo", 12, 50)
print("Total Bus fare is:", School_bus.fare())
```

```
Total Bus fare is: 5500.0
```