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**Faculty of Technology and Engineering**

**U & P U. Patel Department of Computer Engineering**

**Practical List**

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| Academic Year | : | 2021-22 | Semester | : | 4 |
| Course code | : | CE259 | Course name | : | Programming in Python |

**Note: Practical List is for Students. We need to cover concept require to implement respective practical**

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| **Sr. No.** | **Aim** |
| 9 | **Consider an example of declaring the examination result. Design three classes:**  **Student, Exam, and Result. The Student class has data members such as those**  **representing rollNumber, Name, etc. Create the class Exam by inheriting Student**  **class. The Exam class adds fields representing the marks scored in six subjects.**  **Derive Result from the Exam class, and it has its own fields such as total\_marks.**  **Write an interactive program to model this relationship.** |
|  | class Student:  def \_\_init\_\_(self, r, n):  self.rno = r  self.name = n  class Exam(Student):  def \_\_init\_\_(self,r,n,m):  Student.\_\_init\_\_(self,r,n)  self.marks=[]  self.marks=m  class Result(Exam):  def \_\_init\_\_(self,r,n,m):  Exam.\_\_init\_\_(self,r,n,m)  self.total = sum(self.marks)  def \_\_str\_\_(self):  avg = self.total/6  return "RollNo: {a} \t\t\t Name: {b} \nTotal Marks: {c}/600 \t Percentage: {d}"\  .format(a=self.rno,b=self.name,c=self.total,d=avg)  # s1= Result(1,"Abhi",[5,2,6,4,3,1]) # print(s1.name,s1.total)  sList = [] N = int(input("Enter no. of students: ")) for i in range(N):  r = int(input("Enter RollNo.: "))  n = input("Enter name: ")  print("Enter 6 marks: ")  m = list(map(int, input().split()))  # print(m)  s = Result(r, n, m)  sList.append(s)  print() print("Displaying Result:") for sl in sList:  print(sl)  #######End of code######### |
| output |  |