**Practical 9**

**Aim :**

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.

**Pract :**

**Code:**

# 20CE003\_RAJ BELADIYA

# https://github.com/rajbeladiya4/PIP-Practical.git

class student:

    def \_\_init\_\_(self, name, id):

        self.name = name

        self.id = id

    def studen\_info(self):

        print('Name is', self.name)

        print('Id is', self.id)

class Exam(student):

    def \_\_init\_\_(self, name, id, m1, m2, m3, m4, m5, m6):

        student.\_\_init\_\_(self, name, id)

        self.m1 = m1

        self.m2 = m2

        self.m3 = m3

        self.m4 = m4

        self.m5 = m5

        self.m6 = m6

    def marks\_info(self):

        print('m1 =', self.m1)

        print('m2 =', self.m2)

        print('m3 =', self.m3)

        print('m4 =', self.m4)

        print('m5 =', self.m5)

        print('m6 =', self.m6)

class result(Exam):

    def \_\_init\_\_(self, name, id, m1, m2, m3, m4, m5, m6):

        Exam.\_\_init\_\_(self, name, id, m1, m2, m3, m4, m5, m6)

        self.total\_marks = m1+m2+m3+m4+m5+m6

    def final\_result(self):

        return self.total\_marks

print('How many record of student you want to print :')

n = int(input())

for i in range(1, n):

    print('Enter Name of the student :')

    Name = str(input())

    print('Enter id of the student :')

    Id = str(input())

    print('enter m1')

    m1 = int(input())

    print('enter m2')

    m2 = int(input())

    print('enter m3')

    m3 = int(input())

    print('enter m4')

    m4 = int(input())

    print('enter m5')

    m5 = int(input())

    print('enter m6')

    m6 = int(input())

    result = result(Name, Id, m1, m2, m3, m4, m5, m6)

    result.studen\_info()

    result.marks\_info()

    print('total marks is :', result.final\_result())

**Output:**

