class Student:

    def \_\_init\_\_(self, name, rollNumber):

*self*.name = name

*self*.rollNumber = rollNumber

class Exam(Student):

    def \_\_init\_\_(self, name, rollNumber, mco\_marks, dsa\_marks, dbms\_marks, sgp\_marks, hs\_marks):

        super().\_\_init\_\_(name, rollNumber)

*self*.mco\_marks = mco\_marks

*self*.dsa\_marks = dsa\_marks

*self*.dbms\_marks = dbms\_marks

*self*.sgp\_marks = sgp\_marks

*self*.hs\_marks = hs\_marks

class Result(Exam):

    total = 0

    def \_\_init\_\_(self, name, rollNumber, mco\_marks, dsa\_marks, dbms\_marks, sgp\_marks, hs\_marks):

        super().\_\_init\_\_(name, rollNumber, mco\_marks, dsa\_marks, dbms\_marks, sgp\_marks, hs\_marks)

*self*.total = *self*.mco\_marks + *self*.dsa\_marks + *self*.dbms\_marks + *self*.sgp\_marks + *self*.hs\_marks

    def print\_result(self):

        print(f'Student Name: {*self*.name}\nStudent rollNumber:{*self*.rollNumber}\nTotal marks: {*self*.total}')

name = input("Enter student name: ")

rollNumber = int(input("Enter roll number: "))

s = Student(name, rollNumber)

mco\_marks = int(input("Enter MCO marks: "))

dsa\_marks = int(input("Enter DSA marks: "))

dbms\_marks = int(input("Enter DBMS marks: "))

sgp\_marks = int(input("Enter SGP marks: "))

hs\_marks = int(input("Enter HS marks: "))

e = Exam(name, rollNumber, mco\_marks, dsa\_marks, dbms\_marks, sgp\_marks, hs\_marks)

r = Result(name, rollNumber, mco\_marks, dsa\_marks, dbms\_marks, sgp\_marks, hs\_marks)

r.print\_result()

