## **EXPERIMENT N0-5**

<u>AIM:</u> Define a base class called Student with data members roll number, name, marks of three subjects and method get() to get the student details. Define other base class called Sports with method getsm() to read the sports mark. Create a new class derived from Student and Sports and define the method display () to find out the total and average of marks. Raise a user defined exception if total marks are less than 50.

## **CODE:**

```
class student:
  def getdetails(self,rname,rno,m1,m2,m3):
    student.rname=rname
    student.rno=rno
    student.m1=m1
    student.m2 = m2
    student.m3 = m3
class sports:
  def getsm(self,smarks):
    sports.smarks=smarks
class derived(student,sports):
  def marks(self):
    sums2=self.m1+self.m2+self.m3+self.smarks
    avg=sums2/4
    try:
       if (sums2 < 50):
```

```
raise ValueError
       else:
         print(f"your total marks are: {sums2} \naverage marks are: {avg}")
     except ValueError:
       print("your total marks are less than 50")
if __name__ == '__main__':
  s1=derived()
  name = input("Write your name: ")
  roll no = int(input("Write your roll no: "))
  m1 = int(input("Marks in Subject1: "))
  m2 = int(input("Marks in Subject2: "))
  m3 = int(input("Marks in Subject3: "))
  sm = int(input("Marks in Sports: "))
  s1.getdetails(name,roll_no,m1,m2,m3)
  s1.getsm(sm)
  s1.marks()
```

## **OUTPUT:**



