**Experiment 6**

**Write a program to create a list of student’s records and search a student record using a dictionary.**

class Student:

    def GetStudent(self):

        self.\_\_rollno = input("Enter Roll No:")

        self.\_\_name = input("Enter Name:")

        self.\_\_physicsMarks = int(input("Enter Physics Marks:"))

        self.\_\_chemistyMarks = int(input("Enter Chemistry Marks:"))

        self.\_\_mathMarks = int(input("Enter Maths Marks:"))

        return(self.\_\_rollno)

    def PutStudent(self):

        print(self.\_\_rollno,self.\_\_name,((self.\_\_physicsMarks+self.\_\_chemistyMarks+self.\_\_mathMarks)/3))

    def Search(self,min,max):

        per = (self.\_\_physicsMarks+self.\_\_mathMarks+self.\_\_chemistyMarks)/3

        if(per>=min and per<=max):

            return True

        else:

            return False

studentDict = dict()

n = int(input("How Many Students you Want To Input?"))

for i in range(n):

 S = Student()

 rollno = S.GetStudent()

 studentDict.setdefault(rollno,S)

# Searching for student records with roll numbers provided by the user.

rollno = input("Enter Roll Number you Want Search?")

S = studentDict.get(rollno,"Not Found!")

if(isinstance(S,Student)):

    S.PutStudent()

else:

    print(S)

# Printing records of all users with marks greater than 60%

print("All students who scored more that 60 percentage are : ")

gradeAStudent = list(filter(lambda s:s.Search(60,100),studentDict.values()))

if(len(gradeAStudent) == 0):

    print("Record Not Found!")

else:

    for S in gradeAStudent:

        S.PutStudent()