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**Sem :5th**

**Subject : Python Programming**

**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()**

**OUTPUT:**

