

DATE..13.Oct.23

EXP. No.....

Activity 6: Write a program to create a list of students records and search a student record using a dictionary.

Class Student:

def get Student (self):

roll no = input ("Enter Roll no:")

name = input ("Enter Name:")

physics Marks = int(input ("Enter Physics Marks:"))

chemistry Marks = int(input ("Enter chemistry Marks:"))

self.rollno

return self

roll no, self.name, ((self.physics Marks + chemistry Marks + self.maths Marks) / 3)

self, min, max):

if (self.physics Marks + self.maths Marks + chemistry Marks) / 3

= min and per <= max):

True

else:

return False.

for i in range(n):

S = Student()

roll no = S.get Student()

Student Dict set default (roll no, S)

Searching for Student Records with roll numbers provided by the user.

roll no = input ("Enter Roll number you want search")

S = Student Dict.get (roll no, "Not Found!")

if (is instance (S, Student)):

S.put Student()

else:

print(S)

Menu:
1.Add Record
2.Display Record
3.Exit
Enter your choice:1
Enter name: ABC
Enter age: 123
Enter city: XYZ
Record added successfully

Menu:
1.Add Record
2.Display Record
3.Exit
Enter your choice:2
Database record
Name: ABC
Age: 123
City: XYZ

Menu:
1.Add Record
2.Display Record
3.Exit
Enter your choice:3
Exiting the program.Goodbye!

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# Printing records of all users with marks greater than 60%
print ("All Students who scored more than 60 percentage are:")
grade A Student = list(filter(lambda s: s >= 60, student_dict.values()))
if (len(grade A Student) == 0):
    print ("Record Not Found!")
else:
    for s in grade A Student:
        s.put Student()
```

```
How Many Students you want to Input? : 3
Enter Roll No : 12
Enter name: aakash
Enter Physics Marks: 78
Enter Chemistry Marks: 69
Enter Maths Marks: 79
Enter Roll No : 13
Enter name: manik
Enter Physics Marks: 68
Enter Chemistry Marks: 79
Enter Maths Marks: 89
Enter Roll No : 14
Enter name: raghav
Enter Physics Marks: 78
Enter Chemistry Marks: 86
Enter Maths Marks: 68
Enter Roll Number you want to Search? : 13
13 manik 79
All students who scored more than 60 percentage are :
12 aakash 75
13 manik 79
14 raghav 77
```