

#Dictionary Example--- Take 3 students data with Name. each student has 2 classes AI & DS and have 4 Exams quiz1,quiz2,mid and final respectively. Take two input as student_rollno and find the max no.

```
students={}
```

```
marks_data5={"quiz1":85,"quiz2":40,"mid":75,"final":95}
```

```
marks_data6={"quiz1":65,"quiz2":45,"mid":65,"final":65}
```

```
marks_data7={"quiz1":40,"quiz2":55,"mid":50,"final":65}
```

```
marks_data8={"quiz1":70,"quiz2":60,"mid":80,"final":85}
```

```
#Student 1 data
```

```
marks_data1={"quiz1":40,"quiz2":45,"mid":50,"final":55}
```

```
marks_data2={"quiz1":35,"quiz2":30,"mid":40,"final":55}
```

```
class_list1=[]
```

```
class_data1={"name":"AI","marks":marks_data1}
```

```
class_list1.append(class_data1)
```

```
class_data2={"name":"DS","marks":marks_data2}
```

```
class_list1.append(class_data2)
```

```
students_1001={
```

```
    "name":"itrat",
```

```
    "class":class_list1
```

```
}
```

```
#Student 2 data
```

```
marks_data3={"quiz1":20,"quiz2":45,"mid":60,"final":55}
```

```
marks_data4={"quiz1":30,"quiz2":60,"mid":45,"final":30}
```

```
class_list2=[]
```

```
class_data3={"name":"AI","marks":marks_data3}
```

```
class_list2.append(class_data3)
```

```
class_data4={"name":"DS","marks":marks_data4}
```

```
class_list2.append(class_data3)
```

```
students_1002={
```

```
    "name":"Ali",
```

```
    "class":class_list2
```

```
}
```

```
#Student 3 data
```

```
marks_data5={"quiz1":20,"quiz2":45,"mid":60,"final":55}
```

```
marks_data6={"quiz1":30,"quiz2":60,"mid":45,"final":30}
```

```
class_list3=[]  
  
class_data5={"name":"AI","marks":marks_data3}  
  
class_list3.append(class_data5)
```

```
class_data6={"name":"DS","marks":marks_data4}  
  
class_list3.append(class_data6)
```

```
students_1003={  
    "name":"Komal",  
    "class":class_list3  
}  
  
students={"students_1001":students_1001,  
          "students_1002":students_1002,  
          "students_1003":students_1003  
}
```

```
#print(students)
```

```
input_key_sname=input("Enter student id")  
  
input_key_cname=input("Enter Class name")
```

```
find_classname=students[input_key_sname]
```

```
for items in find_classname["class"]:

    if items["name"]==input_key_cname:#"AI":

        #print(items["marks"])

        find_marksname=items["marks"]


max=0

exam=""

for item,key in find_marksname.items():

    if max<key:

        max=key

        exam=item

        #print("\n" + item + ":" + str(key))


print(input_key_sname + ' Name: ' + find_classname["name"] + ' Max marks in ' + exam + "=" + str(max))
```