Dictionary

Sequences = list string tuple

Map ------- Key -Value pair
  Dictionary
  {key1:valu1, key2:value2,....}

```python
mydict =
{"roll":10,"name":"prachi","address":{"city":"pune","state":"mah","pin":"12345"}}

#access the dictionary
x = mydict["name"]
print(x)

y= mydict.keys()
print(y)

v = mydict.values()
print(v)

#each key is accessed in  d
for d in mydict:
    if d == "address":
        print("pin=",mydict[d]["pin"])  #how to print the pin
    else:
        print(mydict[d])


items = mydict.items() # returns a list of tuples
print(items)

for tup in items:
    print("key=",tup[0],"value=",tup[1])


#REMOVING from DICTIONARY
del mydict["address"]["state"]
print(mydict)


mydict.clear()
print(mydict)


#del mydict
#print(mydict)

#For changing or adding to dictionary
```

```python
mydict["product"] ="pencil"
mydict["brand"] ="camlin"
print(mydict)

mydict.update({"product":"eraser"})  #change
print(mydict)
mydict.update({"cost":"10"})
print(mydict)
```

HW --

MaxMarks = {"english":100, "maths":75, science : 150}

Student = { "prachi" : {"english": 65, "maths":70, "science": 100} ,
          "janhavi" :{"english": 75, "maths":67, "science": 120},
           "namita": {"english": 89, "maths":71, "science: 110}
        }

1. Accept subject name and max marks from user and add to dictionary till user says done
2. Accept student names and per subject marks from user and add to the second dictionary till user says done
3. Menu
      1. show total percentage of **given** student
      2. show percentage marks of a **given** subject of each student
      3. show the max percent of a **given** subject and the name of student
      4. quit