**27.How to implement Hash Tables using python dictionaries?**

**Objective:**

* To implement hash tables using python3.

**Process:**

* **Hash Table:**

Hash tables are a type of data structure in which the address or the index value of the data element is generated from a hash function.

That makes accessing the data faster as the index value behaves as a key for the data value.

The keys of the dictionary are hashable.

**Input:**

* Simple dictionary.

**Output:**

* Hash table implementation by accessing, updating and deleting elements in a dictionary.

**Source code:**

#sample dictionary

dict={'name':'sathish','age':24,'degree':'B.Tech'}

print("Original dictionary is\n",dict)

print("\n")

#accessing values from dictionary

print("Accessing the values\n")

print ("dict['name']: ", dict['name'])

print ("dict['age']: ", dict['age'])

print("\n")

#update existing entry

print("updating the elements first and second:\n")

dict['name'] = 'bala';

print(dict)

#add new entry

dict['degree'] = 'B.E';

print(dict)

print("\n")

#printing the new dict

print("new updated values\n")

print(("dict['name']: ", dict['name']))

print("dict['degree']: ", dict['degree'])

print("\n")

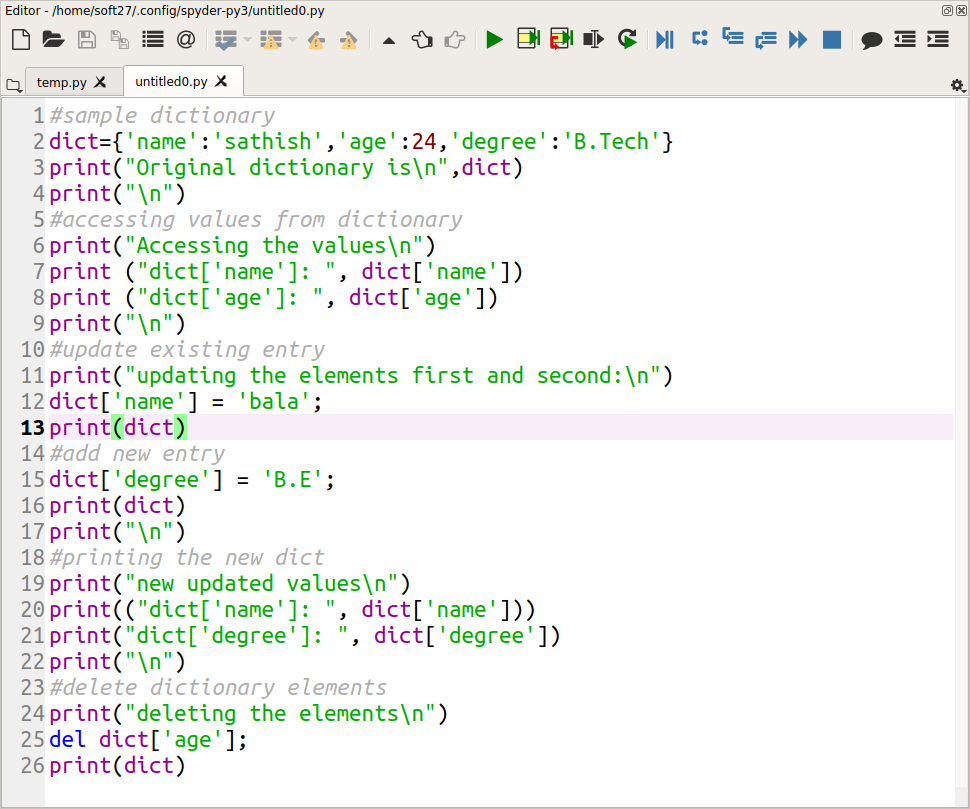
#delete dictionary elements

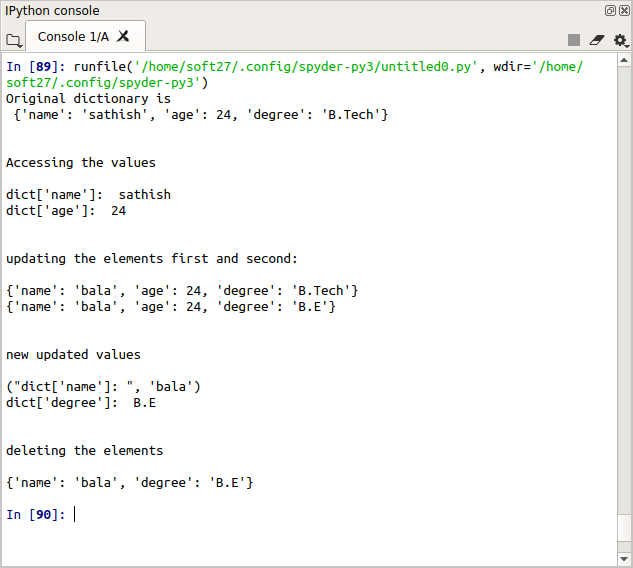
print("deleting the elements\n")

del dict['age'];

print(dict)

**Screen shots:**

****

****