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S11-07

Assignment No.6 – Dictionary

Code:

```
print("Hello World")
Ex = {
"phone": "Iqoo",
"model": "Neo 7",
"year": 2023
}
print(Ex)

#Dictionary items are ordered, changeable, and does not allow duplicates.
#Dictionary items are presented in key:value pairs, and can be referred to by using the key name.

print(Ex["year"])

#Using the dict() method to make a dictionary:
Example = dict(name = "Aarya", age = 19, country = "India")
print(Example)

#Access Items from Dictionary
x = Ex["model"]
print(x)
```

```
#There is also a method called get() that will give you the same result:
y = Ex.get("phone")
print(y)

#The keys() method will return a list of all the keys in the dictionary.
z = Ex.keys()
print(z)

#Add a new item to the original dictionary, and see that the keys list gets updated as well:
exam = {
"phone": "Iphone",
"model": "Pro max 15",
"year": 2022
}
a = exam.keys()
print(a) #before the change
exam["model"] = "Mini 15"
print(a) #after the change

car= {"brand": "Tata","model": "Nano","year": 2009}
b = car.values()
print(b) #before the change
car["year"] = 2020
print(b) #after the change
```

```
Example = {"brand": "Honda","model": "Swift","year": 2010}
if "model" in Example:
 print("Yes, 'model' is one of the keys in the Example dictionary")


#update Method

Example = {"brand": "Ford","model": "Mustang","year": 1964}
print(Example)
Example.update({"year": 2020})
print(Example)


#Remove Items

Example.pop("model")
print(Example)


#The popitem() method removes the last inserted item
Example1= {"brand": "Audi","model": "A8","year": 2011}
Example1.popitem()
print(Example1)


#The del keyword removes the item with the specified key name:
```

```
Example2 = {"brand": "Audi","model": "A8","year": 2011}
del Example2["model"]
print(Example2)



"""
#The del keyword can also delete the dictionary completely:
Example3 = {"brand": "Honda","model": "Swift","year": 2010}
del Example3
print(Example3)
"""
#The clear() method empties the dictionary:
Example4 = {"brand": "Tata","model": "Nano","year": 2009}
Example4.clear()
print(Example4)

#Print all values in the dictionary, one by one
print("PART TWO")
Example10 = {"brand": "Ford","model": "Mustang","year": 1964}
for x in Example10:
 print(Example10[x])

#Loop through
#Print all key names in the dictionary, one by one:
Example10 = {"brand": "Ford","model": "Mustang","year": 1964}
for d in Example10:
```

```
 print(d)

#You can also use the values() method to return values of a dictionary:
print("PART THREE")
for e in Example10.values():
 print(e)

#You can use the keys() method to return the keys of a dictionary:
print("PART FOUR")
for f in Example10.keys():
 print(f)



#Loop through both keys and values, by using the items() method:
print("PART FIVE")
Example100 = {"brand": "Adidas","model": "Superstar","year": 2018}
for x, y in Example100.items():
 print(x, y)



#Copy a Dictionary
#Make a copy of a dictionary with the copy() method:
Example111 = {"brand": "Ford","model": "Mustang","year": 1964}
print(Example111)
mydict = Example111.copy()
print(mydict)
```

```
#Make a copy of a dictionary with the dict() function:
Example222 = {"brand": "Ford","model": "Mustang","year": 1964}
mydict = dict(Example222)
print(mydict)
```

Output:

```
Hello World
{'phone': 'Iqoo', 'model': 'Neo 7', 'year': 2023}
2023
{'name': 'Aarya', 'age': 19, 'country': 'India'}
Neo 7
Iqoo
dict_keys(['phone', 'model', 'year'])
dict_keys(['phone', 'model', 'year'])
dict_keys(['phone', 'model', 'year'])
dict_values(['Tata', 'Nano', 2009])
dict_values(['Tata', 'Nano', 2020])
Yes, 'model' is one of the keys in the Example dictionary
{'brand': 'Ford', 'model': 'Mustang', 'year': 1964}
{'brand': 'Ford', 'model': 'Mustang', 'year': 2020}
{'brand': 'Ford', 'year': 2020}
{'brand': 'Audi', 'model': 'A8'}
{'brand': 'Audi', 'year': 2011}
{}
PART TWO
```

Ford

Mustang

1964

brand

model

year

PART THREE

Ford

Mustang

1964

PART FOUR

brand

model

year

PART FIVE

brand Adidas

model Superstar

year 2018

{'brand': 'Ford', 'model': 'Mustang', 'year': 1964}

{'brand': 'Ford', 'model': 'Mustang', 'year': 1964}

{'brand': 'Ford', 'model': 'Mustang', 'year': 1964}