REV-WEEK3- Assignment on Python Dictionary ---------- Created by V.Karthik Date:30.10.2022

Python from Scratch Weekly Assignment

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Problem 1:

Use the following dictionary objects for this assignment:

```
dict_aisle = { "A100": ['bananas', 'milk', 'bread'],
                       "A101": ['pens', 'pencils', 'paper'],
                       "A102": ['canned_peas', 'canned_carrots', 'canned_beans'],
                       "A103": ['plates', 'glasses', 'table_cloth']
                     }

dict_employee_IDs = {"ID01": 'John Papa',
                     "ID02": 'David Thompson',
                     "ID03": 'Terry Gao',
                     "ID04": 'Barry Tex'}
```

Perform the following Operation on given dictionary data:

1.Print the name of the ID "ID02" from the dictionary dict_employee_IDs

2.Delete aisle "A102" from the dictionary dict_aisle

CODE1:

In [1]:
```
#1.Print the name of the ID "ID02" from the dictionary dict_employee_IDs
dict_employee_IDs = {"ID01": 'John Papa',
                     "ID02": 'David Thompson',
                     "ID03": 'Terry Gao',
                     "ID04": 'Barry Tex'}
# Who is ID02
name = dict_employee_IDs.get("ID02")
print("ID02 is", name)
```

```
ID02 is David Thompson
```

In [3]:
```
#2.Delete aisle "A102" from the dictionary dict_aisle
dict_aisle = { "A100": ['bananas', 'milk', 'bread'],
                       "A101": ['pens', 'pencils', 'paper'],
                       "A102": ['canned_peas', 'canned_carrots', 'canned_beans'],
                       "A103": ['plates', 'glasses', 'table_cloth']
                     }
del dict_aisle['A102']  # Delete aisle A102
print(dict_aisle)
```

```
{'A100': ['bananas', 'milk', 'bread'], 'A101': ['pens', 'pencils', 'paper'], 'A103': ['plates', 'glasses', 'tab
le_cloth']}
```

In [ ]:
```

```

Problem 2:

Use the following dictionary objects for this assignment:

```
dict_aisle = { "A100": ['bananas', 'milk', 'bread'],
                       "A101": ['pens', 'pencils', 'paper'],
                       "A102": ['canned_peas', 'canned_carrots', 'canned_beans'],
                       "A103": ['plates', 'glasses', 'table_cloth']
                     }
```

Perform the following Operation on given dictionary data:

1.Prompt the user to enter the name of the item:
    a.If found, display the aisle number of the item.
    b.if not found, display a message "Item Not Found!!"

2.Add the following aisle to the dict_aisle:
    a.Aisle No: B101
    b.Items on aisle: kids toys, kids clothes

3. Print the dict_aisle as below:
A100 : ['bananas', 'milk', 'bread']
A101 : ['pens', 'pencils', 'paper']
A102 : ['canned peas', 'canned carrots', 'canned beans']
A103 : ['plates', 'glasses', 'table cloth']
B101 : ['Kids toys', 'Kids cloths']

CODE2:

1.Prompt the user to enter the name of the item: a.If found, display the aisle number of the item. b.if not found, display a message "Item Not Found!!"

In [9]:
```
#Solution
aisles = {"A100": ['bananas', 'milk', 'bread'],
          "A101": ['pens', 'pencils', 'paper'],
          "A102": ['canned peas', 'canned carrots', 'canned beans'],
          "A103": ['plates', 'glasses', 'table cloth']
          }

# Prompt user
user_input = input('What are you looking for : ')

# Get the Aisle
for aisle in aisles.keys():
    aisle_list = aisles[aisle]
    if user_input in aisle_list:
        print(user_input, "is on aisle", aisle)
```

```
What are you looking for : paper
paper is on aisle A101
```

2.Add the following aisle to the dict_aisle: a.Aisle No: B101 b.Items on aisle: kids toys, kids clothes

In [8]:
```
#Solution
aisles = {"A100": ['bananas', 'milk', 'bread'],
          "A101": ['pens', 'pencils', 'paper'],
          "A102": ['canned peas', 'canned carrots', 'canned beans'],
          "A103": ['plates', 'glasses', 'table cloth']
          }
# Add new aisle B101 with Kids_toys, Kids_cloths
aisles["B101"] = ['kids toys', 'kids clothes']

# Printing using for loop

for aisle in aisles:
    print(aisle, ":", aisles[aisle])
```

```
A100 : ['bananas', 'milk', 'bread']
A101 : ['pens', 'pencils', 'paper']
A102 : ['canned peas', 'canned carrots', 'canned beans']
A103 : ['plates', 'glasses', 'table cloth']
B101 : ['kids toys', 'kids clothes']
```

In [ ]:
```

```

Problem 3:

Use the following dictionary objects for this assignment:

```
# Fruit : price
inventory = { "banana": 0.25,
              "watermelon": 5.25,
              "orange": 0.50,
              "peer": 0.40,
              "apple": 0.30,
              "kiwi": 0.75,
            }
```

Perform the following Operation on given dictionary data:

1.Prompt the user to enter the quantity of each fruit and display the total cost of the purchase.

CODE3:

In [10]:
```
#1.Prompt the user to enter the quantity of each fruit and display the total cost of the purchase.
inventory = {"banana": 0.25,
             "watermelon": 5.25,
             "orange": 0.50,
             "peer": 0.40,
             "apple": 0.30,
             "kiwi": 0.75,
             }

# Print the use
print('Welcome to the ABC fruit shop. Please enter the quantity :')
user_quantity_bananas = int(input('Bananas : '))
user_quantity_Watermelons = int(input('Watermelons : '))
user_quantity_oranges = int(input('orange : '))
user_quantity_peers = int(input('peer : '))
user_quantity_apples = int(input('apple : '))
user_quantity_kiwis = int(input('kiwi : '))

# Calculating cost
total_cost_bananas = user_quantity_bananas * inventory.get("banana")
total_cost_Watermelons = user_quantity_Watermelons * inventory.get("watermelon")
total_cost_oranges = user_quantity_oranges * inventory.get("orange")
total_cost_peers = user_quantity_peers * inventory.get("peer")
total_cost_apples = user_quantity_apples * inventory.get("apple")
total_cost_kiwis = user_quantity_kiwis * inventory.get("kiwi")

total_cost = total_cost_kiwis + total_cost_bananas + total_cost_apples + total_cost_oranges + \
             total_cost_peers + total_cost_Watermelons

print("Please pay ", total_cost)
```

```
Welcome to the ABC fruit shop. Please enter the quantity :
Bananas : 2
Watermelons : 3
orange : 1
peer : 4
apple : 5
kiwi : 2
Please pay  21.35
```