**Defining dictionary in Python**

Python recognizes a dictionary when you define it using **curly braces {}** with **key-value pair**s separated by **colons :.** For example:

article\_names = {

"golden banana": 350,

"flour": 200,

"moon lit melon": 300,

"sea weed bread": 205,

"cactus": 50,

"banana": 65

}

In this structure, each key (e.g., "golden banana") is associated with a value (e.g., 350). Python's interpreter parses this syntax and creates a dictionary object.

article\_names **= {**

    "golden banana": 350,

    "flour": 200,

    "moon lit melon": 300,

    "sea weed bread": 205,

    "cactus": 50,

    "banana": 65**}**

#Giving the users information about the items-

.items() brings the items from the dictionary article\_names.

Key, value: item, price

.title= capitalizes the first letter of each word

for article, price in article\_names**.items():**

    print(f"{article.**title()**}: £{price}")

**#if I want to enter any word between each item do print command here**

#PromptfFor user to input the article's name

article = input("Enter the article name: **").strip().lower()**

#retrieve the value of the article

price = article\_names**.get(article)**

if price is not None:

    print(f"{article}: £{price}")

else:

    print(f"'{article}' is not in the list.")

 **Displaying Items**: The for loop iterates over the article\_names dictionary and prints each item and its price. This provides the user with a list of available items to choose from.[W3Schools+3Codecademy Forums+3Stack Overflow+3](https://discuss.codecademy.com/t/how-can-i-access-a-dictionary-key-value-inside-of-a-loop/339350?utm_source=chatgpt.com)[FreeCodeCamp+5Discussions on Python.org+5Codecademy Forums+5](https://discuss.python.org/t/loop-through-file-for-words-that-start-with-an-input-value-and-count-occurrences-for-each/21322?utm_source=chatgpt.com)

 **User Input**: The input() function is used to prompt the user to enter the name of the article. The .strip().lower() methods are applied to the input to remove any leading/trailing whitespace and convert the input to lowercase, ensuring it matches the dictionary keys.

 **Retrieving the Price**: The .get() method is used to retrieve the price of the entered article from the dictionary. If the article is found, its price is displayed; otherwise, a message is shown indicating that the article is not in the list.

article\_names = {

    "golden banana": 350,

    "flour": 200,

    "moon lit melon": 300,

    "sea weed bread": 205,

    "disco pie": 115,

    "silver apple": 145,

    "cactus": 50,

    "banana": 65}

#Giving the users information about the items

print("Available Articles")

#**for** key, value (can be defined by the user) **in dictionary\_name.item()**

**#.title() helps to capitalize all the first letters on the n**

**for** article, price **in** article\_names**.items():**

    print(f"{article.title()}: £{price}")

print("Type 'exit' to quit")

while True:

    #PromptfFor user to input the article's name

#.strip() and .lower() help to overcome any spaces etc in the user input

    article = input("Enter the article name: ").**strip().lower()**

    if article == 'exit':

        print("Thanks for shopping:)")

    #retrieve the value of the article

    price = article\_names.get(article)

    #if the article doesn't meet any choice

    #prompt for the user to input again

# continue make the look to start from the beginning

if price==None:

        print(f"Sorry!! {article.title()} does'nt exist. \n Try Again!!")

        price = article\_names.get(article)

**continue**

    elif price >= 200:

        cost = price - (price \* 10/100)

        print(f"Item:{article.title()}  Discount:10%  Total cost: £{cost}")

    elif 100 <= price <= 199.99:

        cost = price - (price \* 5/100)

        print(f"Item:{article.title()}  Discount: 5%  Total Cost:£{cost}")

    else:

        cost = price

        print(f"Item: {article.title()}  Discount: 0%  Total Cost: £{cost}")

    break

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    "disco pie": 115,

    "silver apple": 145,

    "cactus": 50,

    "banana": 65}

#Giving the users information about the items

print("Available Articles")

for article, price in article\_names.items():

    print(f"{article.title()}: £{price}")

print("Type 'exit' to quit")

print("Item not on the list: type 'none'")

while True:

    #PromptfFor user to input the article's name

    article = input("Enter the article name: ").strip().lower()

    if article == 'exit':

        print("Thanks for shopping:)")

        break

    elif article == 'none':

        item = input("Enter the name of the item: ").lower()

        price\_tag = float(input ("Enter the price of the item: "))

        if price\_tag >= 200:

           discount = price\_tag \* 10/100

        elif 100<= price\_tag <=199.99:

            discount = price\_tag \* 5/100

        else:

            discount = 0

        total\_cost = price\_tag - discount

        print(f"Item: {item.title()}\n Discount: £{discount:}\n Total Cost: £{total\_cost}")

        continue

        #retrieve the value of the article

    price = article\_names.get(article)

    #if the article doesn't meet any choice

    #prompt for the user to input again

    if price==None:

        print(f"Sorry!! {article.title()} does'nt exist. \n Try Again!!")

        continue

    elif price >= 200:

        discount = price \* 10/100

    elif 100 <= price <= 199.99:

        discount = price \* 5/100

    else:

        discount = 0

    cost = price - discount

    print(f"Item:{article.title()}\n Discount: £{discount}\n  Total cost: £{cost}")