

Assignment Report

Group Members:

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Objective:

The objective of this assignment is to create a Python program that allows users to input the name of a fruit to get the number of calories of a particular fruit.

Program Overview:

The data of the fruit report was inserted by a dictionary named `fruit_dictionary`. The names of the fruits were considered as the keys and the calories as the values. The user is prompted to input the name of a fruit continuously unless Exit is entered by the user. The program then checks if the entered fruit name exists in the dictionary. If it does, the program displays the corresponding calorie count. If the user inputs 'exit', the program terminates. Otherwise, program will ignore the invalid input.

Code Implementation:

```
Python > assignment1 > q1.py > ...
1  #Student ID of the Developers
2
3  """
4  Students ID's
5  814994
6  815290
7  815203
8  """
9
10
11 # Dictionary of Fruit data
12 fruit_dictionary={'apple': '130', 'avocado': '50', 'banana': '110', 'cantaloupe': '50', 'grapefruit': '60', 'grapes': '90', 'honeydew': '50', 'kiwifruit': '90', 'lemon': '80', 'lime': '80', 'mango': '60', 'nectarine': '60', 'orange': '80', 'peach': '60', 'pear': '100', 'pineapple': '50', 'plum': '40', 'raisins': '130', 'strawberry': '55', 'tangerine': '80', 'watermelon': '80'}
13
14 #User menu
15 print("\n")
16 print("Use exit to leave the program")
17 print("\n")
18
19 # Implying infinity While loop as to ask for input again and again unless break
20 while True:
21     #Asking for input from user in lower characters
22     user_input=input("Enter the name of the fruit:- ").lower()
23
24     #Condition to Check Whether the user_input is in fruit_dictionary
25     if user_input not in fruit_dictionary:
26         #To ignore the input that is not include in fruit dictionary.
27         if user_input != "exit":
28             continue
29         else:
30             print("You have been Exit the program")
31             break
32     else:
33         print("Calories:- ",fruit_dictionary[user_input])
34
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

Amrits-MacBook-Pro:Learning Shadow$ /usr/local/bin/python3 /Users/Shadow/Library/CloudStorage/OneDrive-columbiaco

Use exit to leave the program

Enter the name of the fruit:- apple
Calories:- 130
Enter the name of the fruit:- grapefruit
Calories:- 60
Enter the name of the fruit:- cool
Enter the name of the fruit:- right
Enter the name of the fruit:- exit
You have been Exit the program
Amrits-MacBook-Pro:Learning Shadow$
```

Ln 7, Col 7 Spa

Conclusion:

The program effectively fulfills the requirements by allowing users to retrieve calorie information for various fruits stored in the dictionary. It provides a simple and user-friendly interface while maintaining robust functionality.