1. تحتاج الإدارة التعليمية لتقييم أداء المدارس خلال الفترة الماضية، ولذلك قررت أن تقارن متوسط إجمالي الدرجات التي حصل عليها طلاب كل مدرسة كما يلي، وبالتأكيد نحن من سنساعدهم في إجابة هذا السؤال، وستجد بالأسفل عينة صغيرة من بيانات المدارس داخل الإدارة التعليمية (إذا كان لدينا ألف طالب أو عشر ألاف طالب سيستطيع برنامجنا تأدية نفس الوظيفة، فالمفهوم والكود سيكون نفسه، وسيستطيع برنامجنا بالفعل مساعدة الإدارة التعليمية على الحصول على إجابة هذا السؤال)

Make a program to help educational administration to know the average total percentage of each school like the following.

The Average Total Percentage for Codezilla School is 95.40 The Average Total Percentage for Al-Azhar School is 94.55



## إذا لم توفق للوصول للحل يمكنك السعي مرة أخرى بمساعدة الخطوات التالية

```
# dict to store the total percentage for each school
# list to store the total percentage for each student
# loop through the schools
# loop through the students in the current school
# get the grades of the current student
# get the total percentage of the current student
# add the current student & his total percentage to the
students total percentage dict
# get the average total percentage for the students in the
current school
# add the current school and its average total percentage to
the schools_average_percentage dict
# clear the students total percentage list for the next school
# print the average total percentage for each school
```



```
# dict to store the total percentage for each school

schools_average_percentage = {}

# list to store the total percentage for each student

students_total_percentage = []

# loop through the schools

for school in schools:

# loop through the schools

# loop through the schools

# loop through the schools[school]:

# get the grades of the current student

subjects_grades = schools[school][student]

# get the total percentage of the current student

total_percentage = sum(subjects_grades.values()) / len(subjects_grades)

# add the current student & his total percentage to the students_total_percentage dict

students_total_percentage.append(total_percentage)

# get the average total percentage for the students in the current school

school_average_percentage = sum(students_total_percentage) / len(students_total_percentage)

# add the current school and its average total percentage to the schools_average_percentage dict

schools_average_percentage[school] = school_average_percentage

# clear the students_total_percentage list for the next school

students_total_percentage = []

# print the average total percentage for each school

for school, school_total_percentage in schools_average_percentage.items():

print(f"The Average Total Percentage for {school} School is (school_total_percentage:.2f)")
```



```
2. قم بعمل برنامج لمقهى كودزيلا بحيث يتفاعل مع المستخدم
بالشكل التالي
```

Make a program for Codezilla Cafe that interacts with the user like the following.

القائمة المتاحة

```
# available items
hot_drinks = {"Coffee": 20, "Tea": 15, "Hot Chocolate": 25}
cold_drinks = {"Soda": 10, "Iced Tea": 15, "Smoothie": 30}
desserts = {"Ice Cream": 50, "Chocolate Cake": 60,
"Cheesecake": 70}
```



```
2 hot_drinks = {"Coffee": 20, "Tea": 15, "Hot Chocolate": 25}
3 cold_drinks = {"Soda": 10, "Iced Tea": 15, "Smoothie": 30}
4 desserts = {"Ice Cream": 50, "Chocolate Cake": 60, "Cheesecake": 70}
7 menu = {"Hot Drinks": hot_drinks, "Cold Drinks": cold_drinks, "Desserts": desserts}
9 # greet the user
10 print("Welcome to Codezilla Cafe")
13 # store the order
14 order = {}
       for i, item_type in enumerate(menu):
           print(f"{i+1}. {item_type}")
       # get the user choice
       choice = input("Please, Enter the Number of the Item Type(Enter to exit): ")
       # if the user chooses to exit
       if choice == "":
          break
       item_type_name = list(menu)[int(choice) - 1]
       item_type = menu[item_type_name]
       for i, item in enumerate(item_type):
           item_price = item_type[item]
           print(f"{i+1}. {item}: {item_price} EGP")
       # get the user choice
       choice = input("Enter Item Number: ")
       # get the item name
       item_name = list(item_type)[int(choice) - 1]
       # get the price of the item
       item_price = item_type[item_name]
       # get the quantity of the item
       item_quantity = int(input("Please Enter Quantity: "))
       # calculate the total price of the item
       item_total = item_price * item_quantity
       # add the order to the order dictionary
       order[item_name] = {"price": item_price, "quantity": item_quantity, "total": item_total}
```



```
item_quantity = int(input("Please Enter Quantity: "))
       item_total = item_price * item_quantity
       order[item_name] = {"price": item_price, "quantity": item_quantity, "total": item_total}
58 total_orders = [order[item]["total"] for item in order]
59 total_orders_price = sum(total_orders)
62 print("-" * 20)
63 print("Your order is:")
64 print("-" * 20)
65 for item in order:
       item_info = f"""Item: {item}
67 Price: {order[item]['price']} EGP
68 Quantity: {order[item]['quantity']} units
69 Total: {order[item]['total']} EGP"""
       print(item_info)
       print("-" * 20)
74 print(f"Total Order: {total_orders_price} EGP")
```

