



## 1. قم بتخزين البيانات التالية داخل dictionary

1. Create a dictionary called fruits that contains the following information:

```
# Apple - 20
# Banana - 15
# Orange - 10
# Strawberry - 30
# Mango - 25
```

```
### answer ###
fruits = {
    "Apple": 20,
    "Banana": 15,
    "Orange": 10,
    "Strawberry": 30,
    "Mango": 25
}
```

{//}

2. قم بعمل dictionary لتخزين أسماء الطلاب ودرجاتهم كما يلي

```
2. Create a dictionary called students that contains the following information:
```

```
# Mohamed Hassan - 83
# Ahmed Khaled - 97
# Ali Hamed - 75
# Mahmoud Samir - 89
```

```
#### answer ####
students = {
    "Mohamed Hassan": 83,
    "Ahmed Khaled": 97,
    "Ali Hamed": 75,
    "Mahmoud Samir": 89
}
```

{codezi//a}

{//}

3. قم بعمل dictionary لتخزين المشروبات التالية وسعرهم

```
Create a dictionary called drinks that contains the following information:
```

```
# Coke - 10
# Sprite - 8
# Fanta - 8
# Pepsi - 10
```

```
#### answer ####
```

```
drinks = {
    "Coke": 10,
    "Sprite": 8,
    "Fanta": 8,
    "Pepsi": 10
}
```

{codezi//a}

{//}

4. قم بعمل dictionary لتخزين نتائج طلاب مدرسة كودزيلا  
داخل المسابقة، بحيث يقابل المركز في المسابقة اسم كل طالب

```
Create a dictionary with the order of codezilla students in a competition.
```

```
# The key is the order and the value is the name of the student
```

```
# 1 - Mohamed Ahmed
```

```
# 2 - Ahmed Khaled
```

```
# 3 - Ali Hamed
```

```
# 6 - Mahmoud Samir
```

```
# 8 - Ahmed Hassan
```

```
#### answer ####
```

```
codezilla_students = {  
    1: "Mohamed Ahmed",  
    2: "Ahmed Khaled",  
    3: "Ali Hamed",  
    6: "Mahmoud Samir",  
    8: "Ahmed Hassan"  
}
```

{codezi//a}

{//}

5. قم بإصلاح الخطأ في الكود التالي، ولكن مع الإبقاء على الاسم الأول والثاني لكل طالب منفصل كما هو

Debug the following code, keeping the first and last names separated.

```
grades = {  
    "Ahmed", "Hassan": 87,  
    "Hossam", "Ali": 90,  
    ["Mohamed", "Kamel"]: 74,  
    ["Ali", "Hamed"]: 100,  
    "Ahmed", "Khaled": 95  
}
```

```
#### answer ####  
  
grades = {  
    ("Ahmed", "Hassan"): 87,  
    ("Hossam", "Ali"): 90,  
    ("Mohamed", "Kamel"): 74,  
    ("Ali", "Hamed"): 100,  
    ("Ahmed", "Khaled"): 95  
}
```

{codezi//a}

```
{//}
```

6. قم بطباعة أسعار المنتجات التالية من قائمة المطعم

Print the prices of the following Pizzas from the menu.

```
# Pepperoni Pizza  
# Chicken Pizza  
# Hawaiian Pizza
```

```
pizzas = {  
    "Margherita": 100,  
    "Pepperoni": 120,  
    "Meat Lovers": 150,  
    "Chicken": 130,  
    "Cheese": 100,  
    "Veggie": 120,  
    "Hawaiian": 150,  
}
```

```
### answer ###  
print(pizzas["Pepperoni"])  
print(pizzas["Chicken"])  
print(pizzas["Hawaiian"])
```

{codezi//a}

```
{//}
```

7. قم بطباعة أسعار المشروبات التالية.

Print the prices of the following drinks.

```
# Coke  
# Mango Juice  
# Tea  
# Coffee
```

```
drinks = {  
    "Coke": 30,  
    "Sprite": 25,  
    "Fanta": 25,  
    "Pepsi": 30,  
    "Tea": 20,  
    "Coffee": 25,  
    "Orange Juice": 30,  
    "Mango Juice": 30  
}
```

```
### answer ###  
print(drinks["Coke"])  
print(drinks["Mango Juice"])  
print(drinks["Tea"])  
print(drinks["Coffee"])
```

{codezi//a}

8. قم بإضافة المنتجات التالية إلى قائمة المنتجات المتاحة داخل المطعم، وقم أيضا بجعل سعر Hawaiian Pizza يكون 190 جنييه.

Add the following desserts to the menu and update the price of Hawaiian pizza to 190.

```
# Ice Cream - 30
# Chocolate Cake - 60
# Cheese Cake - 70
# Brownie - 40
# Donut - 30
```

```
menu = {
    "Cheese pizza": 100,
    "Veggie pizza": 120,
    "Hawaiian pizza": 150,
    "Coke": 30,
    "Sprite": 25,
    "Fanta": 25,
    "Pepsi": 30
}
```



{//}

```
# add the following desserts to the menu
menu["Ice Cream"] = 30
menu["Chocolate Cake"] = 60
menu["Cheese Cake"] = 70
menu["Brownie"] = 40
menu["Donut"] = 30

# update the price of Hawaiian pizza to 190
menu["Hawaiian pizza"] = 190
```

{codezi//a}

{//}

9. قم بطباعة أسعار المشروبات الغازية من قائمة المطعم

Print the prices of Soda items from the menu (from Coke to Pepsi)

```
drinks = {  
    "Latte": 30,  
    "Coke": 30,  
    "Sprite": 25,  
    "Fanta": 25,  
    "Pepsi": 30,  
    "Tea": 20,  
    "Coffee": 25,  
    "Orange Juice": 30,  
    "Mango Juice": 30  
}
```

```
### answer ###  
print(drinks["Coke"])  
print(drinks["Sprite"])  
print(drinks["Fanta"])  
print(drinks["Pepsi"])
```

{codezi//a}

{//}

10. قم بطباعة كل بيتزا وسعرها للعميل من قائمة البيتزا التالية

Print available pizzas and their prices for the customer.

```
# Available Pizzas:  
pizzas = {"Margherita": 100, "Pepperoni": 120, "Meat Lovers":  
150, "Chicken": 130}
```

{codezi//a}

{//}

هذا السؤال كان مجرد محاولة للتجربة من أجل التعلم وتنمية قدراتنا من خلال التجربة والخطأ، وسوف نتناول طريقة استخدام loops مع dictionaries بالتفصيل إن شاء الله خلال الدروس القادمة.

```
### answer ###
pizzas = {"Margherita": 100, "Pepperoni": 120, "Meat Lovers": 150, "Chicken": 130}

# print the available pizzas
print("Available Pizzas:")
# loop through the pizzas dictionary
for pizza in pizzas:
    # print the pizza name and its price
    print(f"{pizza} pizza costs {pizzas[pizza]}")
```

{codezi//a}