1. قم باستخدام البيانات التي بالأسفل لطباعة كل مما يلي:

درجات محمد

العمر الخاص ب علي

العمر الخاص ب سارة والدرجات التي حصلت عليها، بحيث يكون

كل درجة على سطر كما يلي

```
100
94
98
```

Print the Following Information

```
Mohamed grades
Ali Age

Sara age and grades, each grade on a sperate line like this:
100
94
98
```

```
### answer ###
print(students["Mohamed"]["grades"])
print(students["Ali"]["age"])
print(students["Sara"]["age"])

sara_grades = students["Sara"]["grades"]
print(*sara_grades, sep = "\n")
```

{codezilla}

2.قم بطباعة البيانات التالية

Print the following information.

```
Mohamed grades in math and English

Mohamed School

Ahmed grades in math, science, and Arabic

Ali school and grades in history, science, and Arabic

Sara grades in math, science, and history
```

```python
### answer ###

# Mohamed grades in math and english
print(students["Mohamed"]["grades"]["math"])
print(students["Mohamed"]["grades"]["english"])

# Mohamed School
print(students["Mohamed"]["school"])


# Ahmed grades in math, science and arabic
print(students["Ahmed"]["grades"]["math"])
print(students["Ahmed"]["grades"]["science"])
print(students["Ahmed"]["grades"]["arabic"])


# Ali school and grades in history, science and arabic
ali_school = students["Ali"]["school"]
print(ali_school)

ali_grades = students["Ali"]["grades"]
print(ali_grades["history"])
print(ali_grades["science"])
print(ali_grades["arabic"])


# Sara grades in math, science and history
sara_grades = students["Sara"]["grades"]
print(sara_grades["math"])
print(sara_grades["science"])
print(sara_grades["history"])
```

3.قم بطباعة البيانات التالية

Print the following information.

```
chicken burger price
veggie pizza price
coke price
chocolate cake price
Onion Rings price
```

{codezilla}

```python
### answer ###

print(restaurant_menu["Burgers"]["Chicken"])
print(restaurant_menu["Pizzas"]["Veggie"])
print(restaurant_menu["Drinks"]["Coke"])

chocolate_cake_price = restaurant_menu["Desserts"]["Chocolate
Cake"]
print(f'Chocolate Cake price is {chocolate_cake_price}')

onion_rings_price = restaurant_menu["Sides"]["Onion Rings"]
print(f"Onion Rings price is {onion_rings_price}")
```

4.قم بطباعة البيانات التالية

Print the following information.

```
Mohamed Hassan age
Ali Hamed department
Ahmed Khaled salary


All the information about Mahmoud Samir and Ahmed Hassan in the
following format:
Mahmoud Samir is 28 years old, he works in HR department and
his salary is 12,000
```

```python
### answer ###
print(employees["Mohamed Hassan"]["age"])
print(employees["Ali Hamed"]["department"])
print(f'Ahmed Khaled salary is {employees["Ahmed Khaled"]["salary"]:,}')

# all the information about Mahmoud Samir
mahmoud_samir = employees["Mahmoud Samir"]

# we added \ to the end of the line to be able to write the
code in multiple lines
mahmoud_samir_info = f"Mahmoud Samir is {mahmoud_samir['age']} years old, \
he works in {mahmoud_samir['department']} department \
and his salary is {mahmoud_samir['salary']:,}"
print(mahmoud_samir_info)


# all the information about Ahmed Hassan
ahmed_hassan = employees["Ahmed Hassan"]

# we added \ to the end of the line to be able to write the
code in multiple lines
ahmed_hassan_info = f"Ahmed Hassan is {ahmed_hassan['age']} years old, \
he works in {ahmed_hassan['department']} department \
and his salary is {ahmed_hassan['salary']:,}"
print(ahmed_hassan_info)
```

{ codezilla }

5.قم بطباعة النسبة الاجمالية لدرجات علي باستخدام البيانات التالية

Print the total percentage of Ali score using the following information.

```python
### answer ###
ali_grades = students["Ali"]["grades"]


# get the grade of each subject
math_grade = ali_grades["math"]
english_grade = ali_grades["english"]
science_grade = ali_grades["science"]
arabic_grade = ali_grades["arabic"]
history_grade = ali_grades["history"]

# store the grades in a list
ali_grades_lst = [math_grade, english_grade, science_grade,
arabic_grade, history_grade]

# getting the total percentage
total_percentage = sum(ali_grades_lst) / len(ali_grades_lst)

# print the total percentage of Ali
print(f"Ali's total percentage is {total_percentage:.2f}%")
```