

1. قم بجعل البرنامج يعرض بيانات الطلاب بالشكل التالي

Print students' info un the following format.

```
Student Name: Mohamed Hassan  
School: Codezilla  
Grades:  
Math: 100  
English: 90  
Science: 80  
Arabic: 100  
History: 97
```

```
-----  
Student Name: Ahmed Kamal  
School: Codezilla  
Grades:  
Math: 100  
English: 95  
Science: 93  
Arabic: 100  
History: 94  
-----
```

{//}

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

```
# loop through the students

# print the name of the student

# print the school of the student

# print the grades of the student

# get the subjects and grades of the current student

# print the subject and the grade

# print a line to separate the students
```

{codezi//a}

```
{//}
```

```
students = {  
  "Mohamed Hassan": {"grades": {  
    "math": 100,  
    "english": 90,  
    "science": 80,  
    "arabic": 100,  
    "history": 97},  
    "school": "Codezilla"  
  },  
  "Ahmed Kamal": {"grades": {  
    "math": 100,  
    "english": 95,  
    "science": 93,  
    "arabic": 100,  
    "history": 94},  
    "school": "Codezilla"  
  },  
  "Ali Adel": {"grades": {  
    "math": 85,  
    "english": 83,  
    "science": 87,  
    "arabic": 100,  
    "history": 90},  
    "school": "Al-Azhar"  
  },  
  "Sara Ahmed": {"grades": {  
    "math": 100,  
    "english": 94,  
    "science": 98,  
    "arabic": 100,  
    "history": 100},  
    "school": "Al-Azhar"  
  }  
}
```

{codezi//a}

```
{//}
```

```
# loop through the students
for student in students:
    # print the name of the student
    print(f"Student Name: {student}")

    # print the school of the student
    print(f"School: {students[student]['school']}")

    # print the grades of the student
    print("Grades:")
    # get the subjects and grades of the current student
    subjects_grades = students[student]["grades"]
    for subject, grade in subjects_grades.items():
        # print the subject and the grade
        print(f"{subject.title()}: {grade}")

    # print a line to separate the students
    print('-' * 30)
```

{codezi//a}

{//}

2. قم بجعل البرنامج يعرض بيانات الطلاب بالشكل التالي

Print students' info un the following format.

```
Mohamed Hassan's total percentage is 93.40%
-----
Ahmed Kamal's total percentage is 96.40%
-----
Ali Adel's total percentage is 89.00%
-----
Sara Islam's total percentage is 98.40%
-----
```

{codezi//a}

{//}

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

```
# loop through the students  
  
# get the grades of the current student  
  
# total percentage of the current student
```

{codezi//a}

```
{//}
```

```
students = {  
  "Mohamed Hassan": {"grades": {  
    "math": 100,  
    "english": 90,  
    "science": 80,  
    "arabic": 100,  
    "history": 97},  
    "school": "Codezilla"  
  },  
  "Ahmed Kamal": {"grades": {  
    "math": 100,  
    "english": 95,  
    "science": 93,  
    "arabic": 100,  
    "history": 94},  
    "school": "Codezilla"  
  },  
  "Ali Adel": {"grades": {  
    "math": 85,  
    "english": 83,  
    "science": 87,  
    "arabic": 100,  
    "history": 90},  
    "school": "Al-Azhar"  
  },  
  "Sara Islam": {"grades": {  
    "math": 100,  
    "english": 94,  
    "science": 98,  
    "arabic": 100,  
    "history": 100},  
    "school": "Al-Azhar"  
  }  
}
```

{codezi//a}

```
{//}
```

```
# loop through the students
for student in students:
    # get the grades of the current student
    subjects_grades = students[student]["grades"]

    # total percentage of the current student
    total_percentage = sum(subjects_grades.values()) /
len(subjects_grades)

    print(f"{student}'s total percentage is
{total_percentage:.2f}%")
    print("-"*20)
```

{codezi//a}



{//}

3. قم بجعل البرنامج يتفاعل مع المستخدم بالشكل التالي

Make the program interact with user like the following.

```
Please, Enter the name of the student: mohamed hassan
Mohamed Hassan got the following grades:
Math: 100
English: 90
Science: 80
Arabic: 100
History: 97
-----
Mohamed Hassan's total percentage is 93.40%
```

```
Please, Enter the name of the student: codezilla
Sorry, we don't have info about this student
```

{codezi//a}

{//}

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

```
# ask the user for the name of the student  
  
# check if we have info about the student that the user entered  
  
# get the grades of the current student  
  
# loop through the subjects and grades and print them  
  
# total percentage of the current student
```

{codezi//a}

```
{//}
```

```
students = {  
  "Mohamed Hassan": {"grades": {  
    "math": 100,  
    "english": 90,  
    "science": 80,  
    "arabic": 100,  
    "history": 97}  
  },  
  "Ahmed Kamal": {"grades": {  
    "math": 100,  
    "english": 95,  
    "science": 93,  
    "arabic": 100,  
    "history": 94}  
  },  
  "Ali Adel": {"grades": {  
    "math": 85,  
    "english": 83,  
    "science": 87,  
    "arabic": 100,  
    "history": 90}  
  },  
  "Israa Ali": {"grades": {  
    "math": 100,  
    "english": 94,  
    "science": 98,  
    "arabic": 100,  
    "history": 100}  
  }  
}
```

{codezi//a}

```
{//}
```

```
# ask the user for the name of the student
student_name = input("Please, Enter the name of the student:
").title()

# check if we have info about the student that the user entered
if student_name not in students:
    print("Sorry, we don't have info about this student")
    exit()

# get the grades of the current student
subjects_grades = students[student_name]["grades"]

# loop through the subjects and grades and print them
print(f"{student_name} got the following grades:")
for subject, grade in subjects_grades.items():
    print(f"{subject.title()}: {grade}")

# total percentage of the current student
total_percentage = sum(subjects_grades.values()) /
len(subjects_grades)

print("-"*20)
print(f"{student_name}'s total percentage is
{total_percentage:.2f}%")
```

{codezi//a}