

student_information.py

```
def main(): # create an empty dictionary students = {}

# add students
students['Jim'] = {'id': 1, 'gpa': 3.1, 'credits-completed': 97.0,
'grades': [80, 50, 100, 98]}
students['Sarah'] = {'id': 2, 'gpa': 3.6, 'credits-completed': 40.0,
'grades': [80, 98]}

# print full dictionary
print(students)
print()

# list of students
print("List of Students")
for name in students:
    print(name)
print()

# student information
print("Student Information")
print("Student ID\tGPA\tCredits Completed\tGrades")
for name, info in students.items():
    print(f"{name}\t{info['id']}\t{info['gpa']}\t{info['credits-
completed']}\t\t{info['grades']}")
print()

# accessing student info using the key in a loop
print("Accessing Student Information Using the Key in a Loop")
for name in students:
    print(name, students[name])
print()

# remove a student
print("Sarah has dropped out, removing from student info registry")
students.pop('Sarah', None)
```

```
print(students)
print()

# getting GPA info
print("Getting Jim's GPA")
print(students.get('Jim').get('gpa'))
print()

# clear registry
print("Students have graduated, clearing the student registry")
students.clear()
print(students)
print()

print("Completed by, Matthew Valadez")

if name == "main": main()
```

```
Python 3.13.7 (tags/v3.13.7:bceelc3, Aug 14 2025, 14:15:11) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
= RESTART: C:/Users/matth/AppData/Local/Programs/Python/Python313/student_information.py
{'Jim': {'id': 1, 'gpa': 3.1, 'credits-completed': 97.0, 'grades': [80, 50, 100, 98]}, 'Sarah': {'id': 2, 'gpa': 3.6, 'credits-completed': 40.0, 'grades': [80, 98]}}

List of Students
Jim
Sarah

Student Information
Student ID      GPA      Credits Completed      Grades
Jim      1      3.1      97.0      [80, 50, 100, 98]
Sarah    2      3.6      40.0      [80, 98]

Accessing Student Information Using the Key in a Loop
Jim {'id': 1, 'gpa': 3.1, 'credits-completed': 97.0, 'grades': [80, 50, 100, 98]}
Sarah {'id': 2, 'gpa': 3.6, 'credits-completed': 40.0, 'grades': [80, 98]}

Sarah has dropped out, removing from student info registry
{'Jim': {'id': 1, 'gpa': 3.1, 'credits-completed': 97.0, 'grades': [80, 50, 100, 98]}}

Getting Jim's GPA
3.1

Students have graduated, clearing the student registry
{}

Completed by, Matthew Valadez
>>> |
```

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    # getting GPA info
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student_information.py - C:/Users/matth/AppData/Local/Programs/Python/Python313/stude...
File Edit Format Run Options Window Help

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if __name__ == "__main__":
    main()
```

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