

zking_assignment8_2.py

```

29 # Map the data to Student objects
30 students = [Student(student['F_Name'], student['L_Name'], student['Student_ID'], student['Email']) for student in data]
31 return students
32
33 # Define a function to save the updated list of students back into the JSON file
34 def save_students_to_json(file_path, students):
35     # Convert the list of Student objects to a list of dictionaries
36     student_dicts = [student.to_dict() for student in students]
37
38     # Save the updated data to the file
39     with open(file_path, 'w') as f:
40         json.dump(student_dicts, f, indent=4)
41
42 # Load the original students
43 students = load_students_from_json('student.json')
44
45 # Show the original list of students
46 print("This is the original Student list.")
47 print(students)
48
49 # Add a new student
50 new_student = Student('Zach', 'King', '12345', 'zachking@gmail.com')
51 students.append(new_student)
52
53 # Show the updated list of students
54 print("This is the updated Student list.")
55 print(students)
56
57 # Save the updated list of students back to the JSON file
58 save_students_to_json('student.json', students)
59 print("The student.json file has been updated.")

```

Shell

```

>>> %Run zking_assignment8_2.py
This is the original Student list.
[
Student(F_Name=Ellen, L_Name=Ripley, Student_ID=45604, Email=eripley@gmail.com
Student(F_Name=Arthur, L_Name=Dallas, Student_ID=45605, Email=adallas@gmail.com
Student(F_Name=Joan, L_Name=Lambert, Student_ID=45714, Email=jlambert@gmail.com
Student(F_Name=Thomas, L_Name=Kane, Student_ID=68554, Email=tkane@gmail.com
Student(F_Name=Zach, L_Name=King, Student_ID=12345, Email=zachking@gmail.com
Student(F_Name=Zach, L_Name=King, Student_ID=12345, Email=zachking@gmail.com
]
This is the updated Student list.
[
Student(F_Name=Ellen, L_Name=Ripley, Student_ID=45604, Email=eripley@gmail.com
Student(F_Name=Arthur, L_Name=Dallas, Student_ID=45605, Email=adallas@gmail.com
Student(F_Name=Joan, L_Name=Lambert, Student_ID=45714, Email=jlambert@gmail.com
Student(F_Name=Thomas, L_Name=Kane, Student_ID=68554, Email=tkane@gmail.com
Student(F_Name=Zach, L_Name=King, Student_ID=12345, Email=zachking@gmail.com
Student(F_Name=Zach, L_Name=King, Student_ID=12345, Email=zachking@gmail.com
Student(F_Name=Zach, L_Name=King, Student_ID=12345, Email=zachking@gmail.com
]
The student.json file has been updated.

```

json file contents:

```
[
  {
    "F_Name": "Ellen",
    "L_Name": "Ripley",
    "Student_ID": 45604,
    "Email": "eripley@gmail.com"
  },
  {
    "F_Name": "Arthur",
    "L_Name": "Dallas",
    "Student_ID": 45605,
    "Email": "adallas@gmail.com"
  },
  {
    "F_Name": "Joan",
    "L_Name": "Lambert",
    "Student_ID": 45714,
    "Email": "jlambert@gmail.com"
  },
  {
    "F_Name": "Thomas",
    "L_Name": "Kane",
    "Student_ID": 68554,
    "Email": "tkane@gmail.com"
  },
  {
    "F_Name": "Zach",
    "L_Name": "King",
    "Student_ID": "12345",
    "Email": "zachking@gmail.com"
  },
]
```