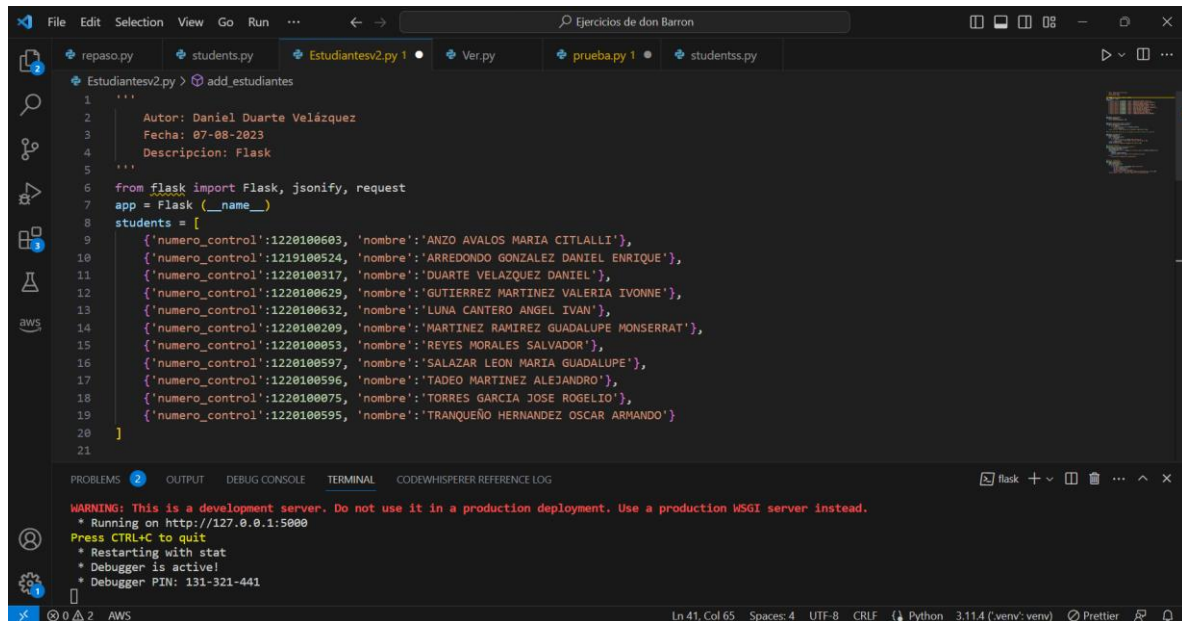


## Actividad 4

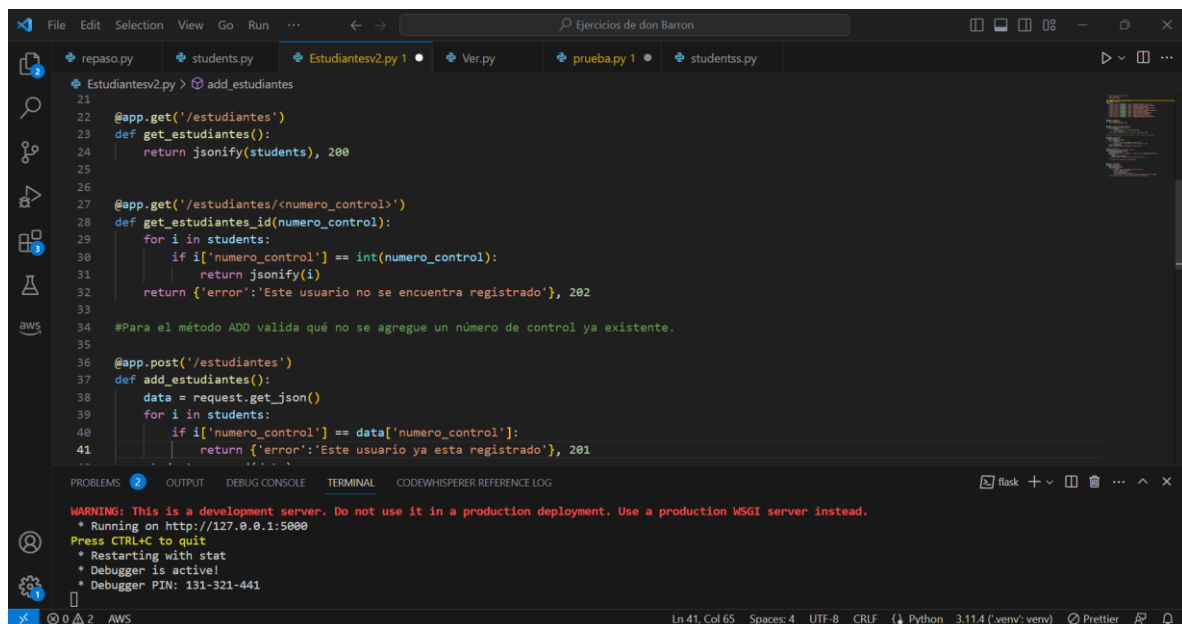


The screenshot shows the VS Code editor with the file 'Estudiantesv2.py' open. The code defines a Flask application with a list of students and a function to add new students. The terminal shows the server running on http://127.0.0.1:5000.

```
1  ...
2  Autor: Daniel Duarte Velázquez
3  Fecha: 07-08-2023
4  Description: Flask
5  ...
6  from flask import Flask, jsonify, request
7  app = Flask(__name__)
8  students = [
9      {'numero_control':1220100603, 'nombre':'ANZO AVALOS MARIA CITLALLI'},
10     {'numero_control':1219100524, 'nombre':'ARREDONDO GONZALEZ DANIEL ENRIQUE'},
11     {'numero_control':1220100317, 'nombre':'DUARTE VELAZQUEZ DANIEL'},
12     {'numero_control':1220100629, 'nombre':'GUTIERREZ MARTINEZ VALERIA IVONNE'},
13     {'numero_control':1220100632, 'nombre':'LUNA CANTERO ANGEL IVAN'},
14     {'numero_control':1220100209, 'nombre':'MARTINEZ RAMIREZ GUADALUPE MONSERRAT'},
15     {'numero_control':1220100053, 'nombre':'REYES MORALES SALVADOR'},
16     {'numero_control':1220100597, 'nombre':'SALAZAR LEON MARIA GUADALUPE'},
17     {'numero_control':1220100596, 'nombre':'TADEO MARTINEZ ALEJANDRO'},
18     {'numero_control':1220100075, 'nombre':'TORRES GARCIA JOSE ROGELIO'},
19     {'numero_control':1220100595, 'nombre':'TRANQUEÑO HERNANDEZ OSCAR ARMANDO'}
20 ]
21
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL CODEWHISPERER REFERENCE LOG

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.  
\* Running on http://127.0.0.1:5000  
Press CTRL+C to quit  
\* Restarting with stat  
\* Debugger is active!  
\* Debugger PIN: 131-321-441

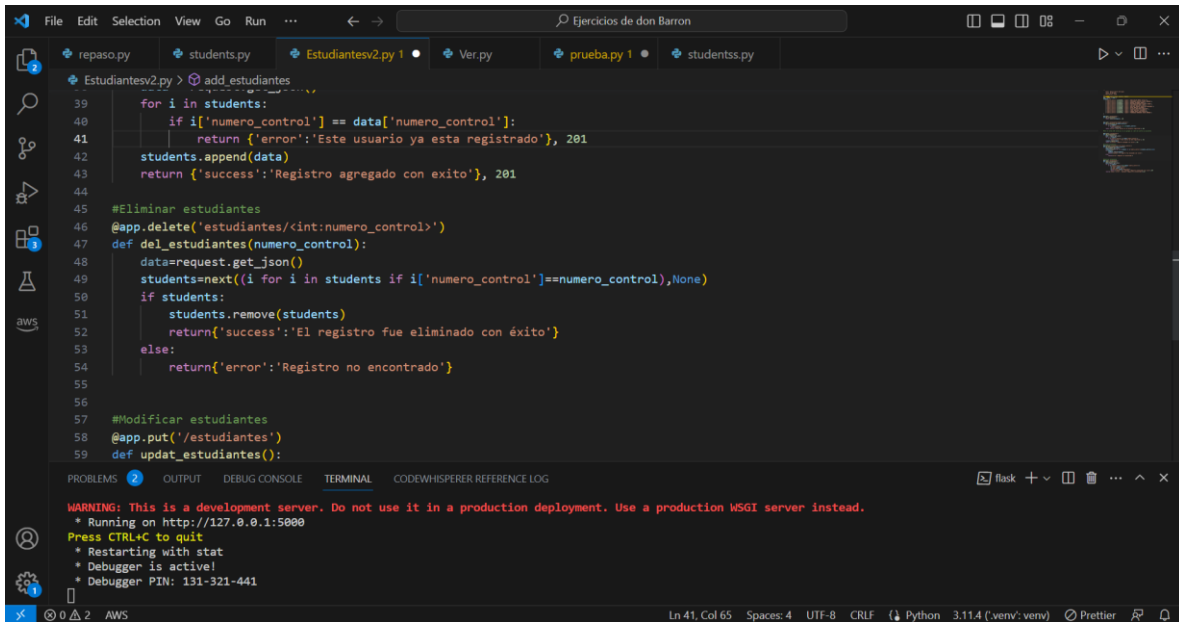


The screenshot shows the VS Code editor with the file 'Estudiantesv2.py' open. The code defines a Flask application with a list of students and functions to get and add students. The terminal shows the server running on http://127.0.0.1:5000.

```
21
22 @app.get('/estudiantes')
23 def get_estudiantes():
24     return jsonify(students), 200
25
26
27 @app.get('/estudiantes/<numero_control>')
28 def get_estudiantes_id(numero_control):
29     for i in students:
30         if i['numero_control'] == int(numero_control):
31             return jsonify(i)
32     return {'error':'Este usuario no se encuentra registrado'}, 202
33
34 #Para el método ADO valida que no se agregue un número de control ya existente.
35
36 @app.post('/estudiantes')
37 def add_estudiantes():
38     data = request.get_json()
39     for i in students:
40         if i['numero_control'] == data['numero_control']:
41             return {'error':'Este usuario ya esta registrado'}, 201
42
```

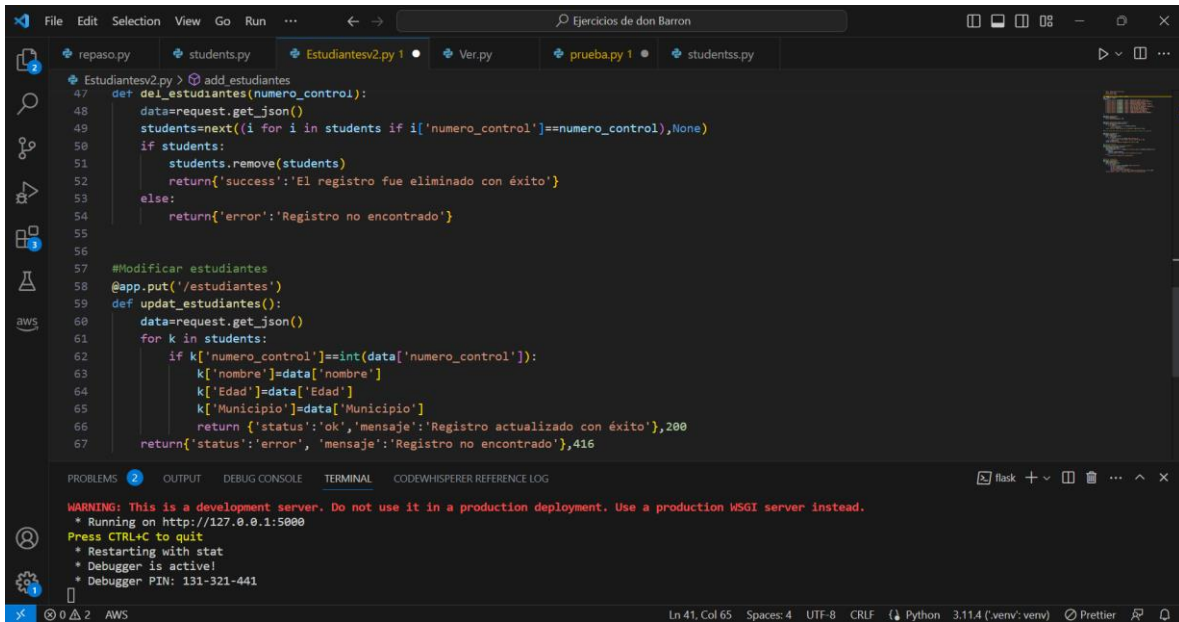
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL CODEWHISPERER REFERENCE LOG

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.  
\* Running on http://127.0.0.1:5000  
Press CTRL+C to quit  
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\* Debugger is active!  
\* Debugger PIN: 131-321-441



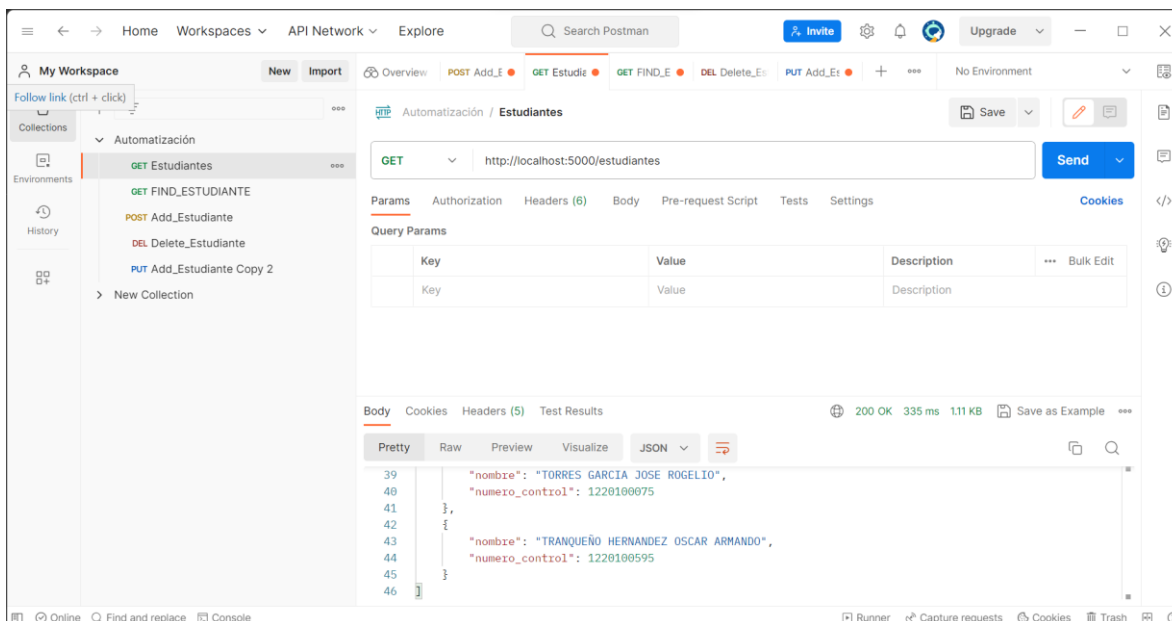
```
File Edit Selection View Go Run ... Ejercicios de don Barron
+ repaso.py + students.py + Estudiantesv2.py 1 + Ver.py + prueba.py 1 + studentss.py
+ Estudiantesv2.py > add_estudiantes
39     for i in students:
40         if i['numero_control'] == data['numero_control']:
41             return {'error': 'Este usuario ya esta registrado'}, 201
42     students.append(data)
43     return {'success': 'Registro agregado con exito'}, 201
44
45 #Eliminar estudiantes
46 @app.delete('/estudiantes/<int:numero_control>')
47 def del_estudiantes(numero_control):
48     data=request.get_json()
49     students=next((i for i in students if i['numero_control']==numero_control),None)
50     if students:
51         students.remove(students)
52         return {'success': 'El registro fue eliminado con éxito'}
53     else:
54         return {'error': 'Registro no encontrado'}
55
56
57 #Modificar estudiantes
58 @app.put('/estudiantes')
59 def updat_estudiantes():
60     data=request.get_json()
61     for k in students:
62         if k['numero_control']==int(data['numero_control']):
63             k['nombre']=data['nombre']
64             k['Edad']=data['Edad']
65             k['Municipio']=data['Municipio']
66             return {'status': 'ok', 'mensaje': 'Registro actualizado con éxito'}, 200
67     return {'status': 'error', 'mensaje': 'Registro no encontrado'}, 416

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL CODEWHISPERER REFERENCE LOG
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 131-321-441
Ln 41, Col 65 Spaces: 4 UTF-8 CRLF Python 3.11.4 (.venv: .venv) Prettier
```



```
File Edit Selection View Go Run ... Ejercicios de don Barron
+ repaso.py + students.py + Estudiantesv2.py 1 + Ver.py + prueba.py 1 + studentss.py
+ Estudiantesv2.py > add_estudiantes
47 def del_estudiantes(numero_control):
48     data=request.get_json()
49     students=next((i for i in students if i['numero_control']==numero_control),None)
50     if students:
51         students.remove(students)
52         return {'success': 'El registro fue eliminado con éxito'}
53     else:
54         return {'error': 'Registro no encontrado'}
55
56
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61     for k in students:
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63             k['nombre']=data['nombre']
64             k['Edad']=data['Edad']
65             k['Municipio']=data['Municipio']
66             return {'status': 'ok', 'mensaje': 'Registro actualizado con éxito'}, 200
67     return {'status': 'error', 'mensaje': 'Registro no encontrado'}, 416

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL CODEWHISPERER REFERENCE LOG
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
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* Debugger is active!
* Debugger PIN: 131-321-441
Ln 41, Col 65 Spaces: 4 UTF-8 CRLF Python 3.11.4 (.venv: .venv) Prettier
```



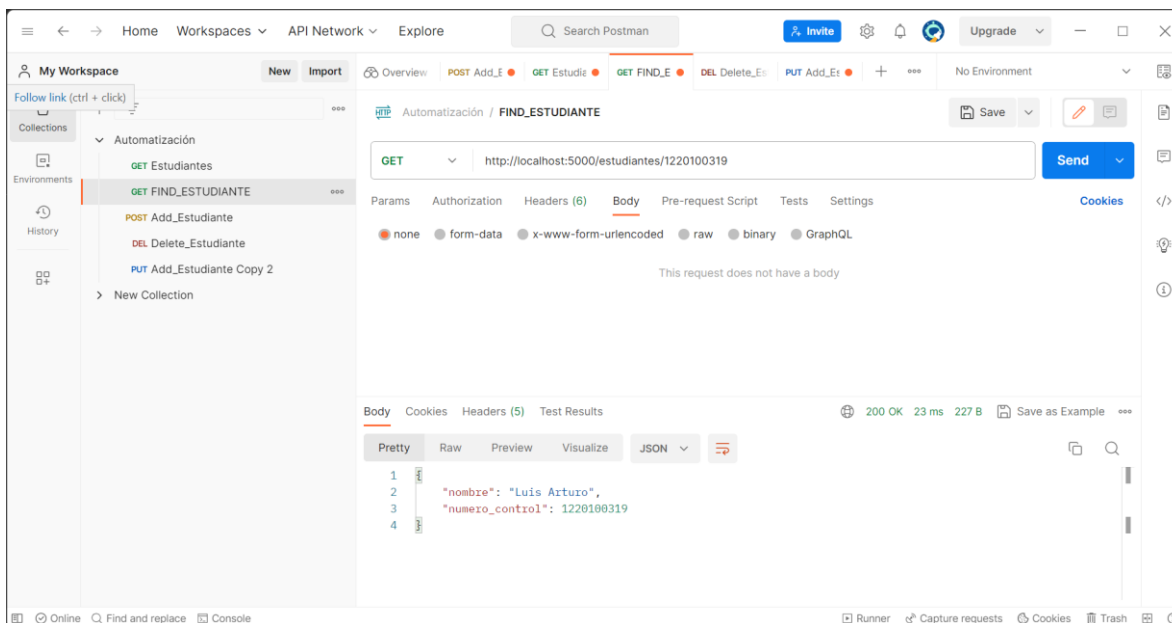
Postman interface showing a GET request to `http://localhost:5000/estudiantes`. The response is a JSON array of two student objects.

**Query Params**

Key	Value	Description
Key	Value	Description

**Body**

```
39  {
40    "nombre": "TORRES GARCIA JOSE ROGELIO",
41    "numero_control": 1220100075
42  },
43  {
44    "nombre": "TRANQUEÑO HERNANDEZ OSCAR ARMANDO",
45    "numero_control": 1220100595
46  }
```



Postman interface showing a GET request to `http://localhost:5000/estudiantes/1220100319`. The response is a JSON object for a single student.

**Body**

```
1  {
2    "nombre": "Luis Arturo",
3    "numero_control": 1220100319
4  }
```

The screenshot shows the Postman interface with a workspace named 'My Workspace'. The left sidebar shows a collection named 'Automatización' with several requests. The main panel displays a POST request to 'http://127.0.0.1:5000/estudiantes'. The body is a JSON object: 

```
{ "numero_control": 1220100319, "nombre": "Luis Arturo" }
```

. The response is shown in the bottom panel, indicating a 201 status code and a success message: 

```
{ "success": "Registro agregado con éxito" }
```

.

The screenshot shows the Postman interface with a workspace named 'My Workspace'. The left sidebar shows a collection named 'Automatización' with several requests. The main panel displays a DELETE request to 'http://127.0.0.1:5000/estudiantes/1220100319'. The response is shown in the bottom panel, indicating a 201 status code and a success message: 

```
{ "success": "Registro agregado con éxito" }
```

.

The screenshot shows the Postman interface with a workspace named 'My Workspace'. The left sidebar shows a collection named 'Automatización' with several requests. The main panel displays a PUT request to 'http://127.0.0.1:5000/estudiantes'. The body is a JSON object: 

```
{ "numero_control": 1220100319, "nombre": "LUIS ARTURO", "Edad": 11, "Municipio": "San Luis de la Paz" }
```

. The response is shown in the bottom panel, indicating a 200 status code and a success message: 

```
{ "mensaje": "Registro actualizado con éxito", "status": "ok" }
```

.