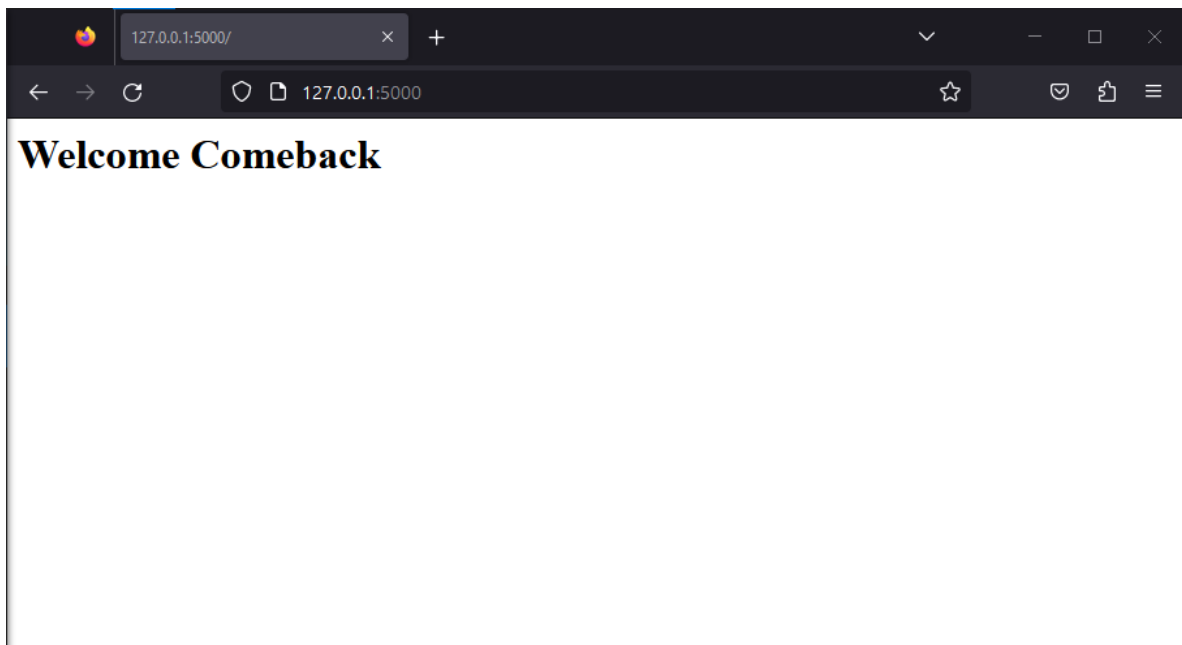


The screenshot shows the Visual Studio Code interface with a file named `repaso.py` open. The file contains the following Python code:

```
1 from flask import Flask
2
3 app = Flask(__name__)
4
5 @app.get('/')
6 def welcome():
7     return '<h1>Welcome Comeback</h1>'
```

The terminal window at the bottom shows the command `flask --app repaso run` being executed. The output indicates that the Flask app is running on `http://127.0.0.1:5000` and shows two successful GET requests from `127.0.0.1` at `16:26:33` and `16:27:52`, both returning a `200` status.

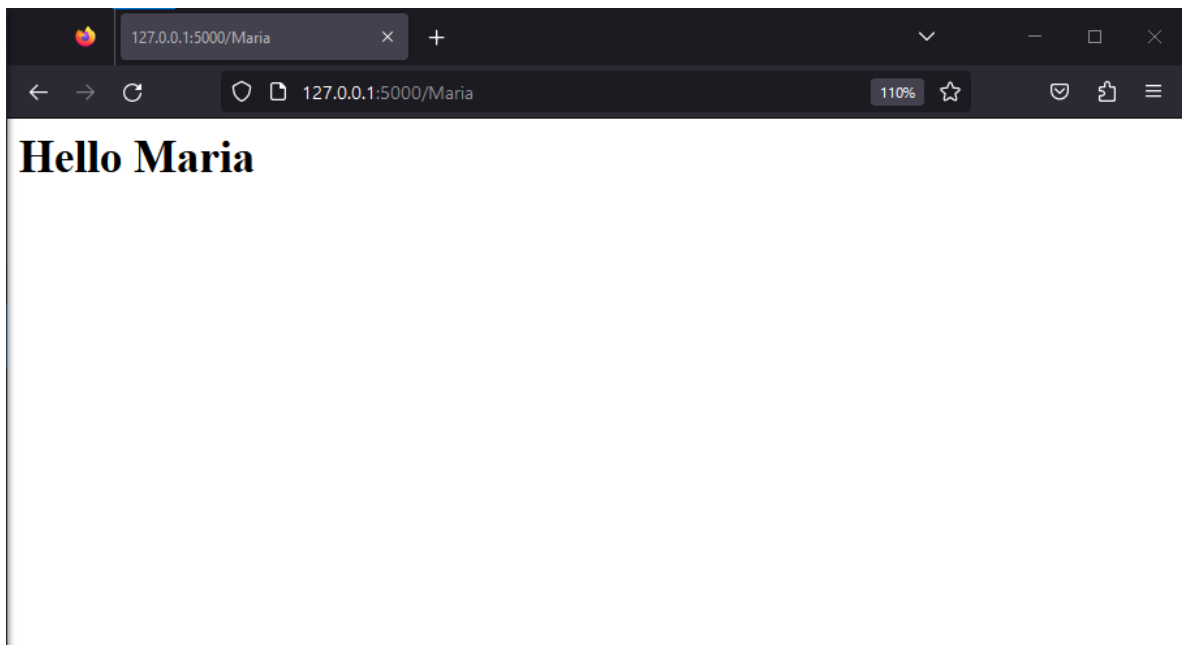


The screenshot shows the Visual Studio Code interface with a file named `repaso.py` open. The file contains the following Python code:

```
1  from flask import Flask
2
3  app = Flask(__name__)
4
5  '''
6  @app.get('/')
7  def welcome():
8      return '<h1>Welcome Comeback</h1>'
9  '''
10
11 @app.get('/<nombre>')
12 def greeting(nombre):
13     return f'<h1>Hello {nombre}</h1>'
14
15
```

The terminal at the bottom shows the output of running the application:

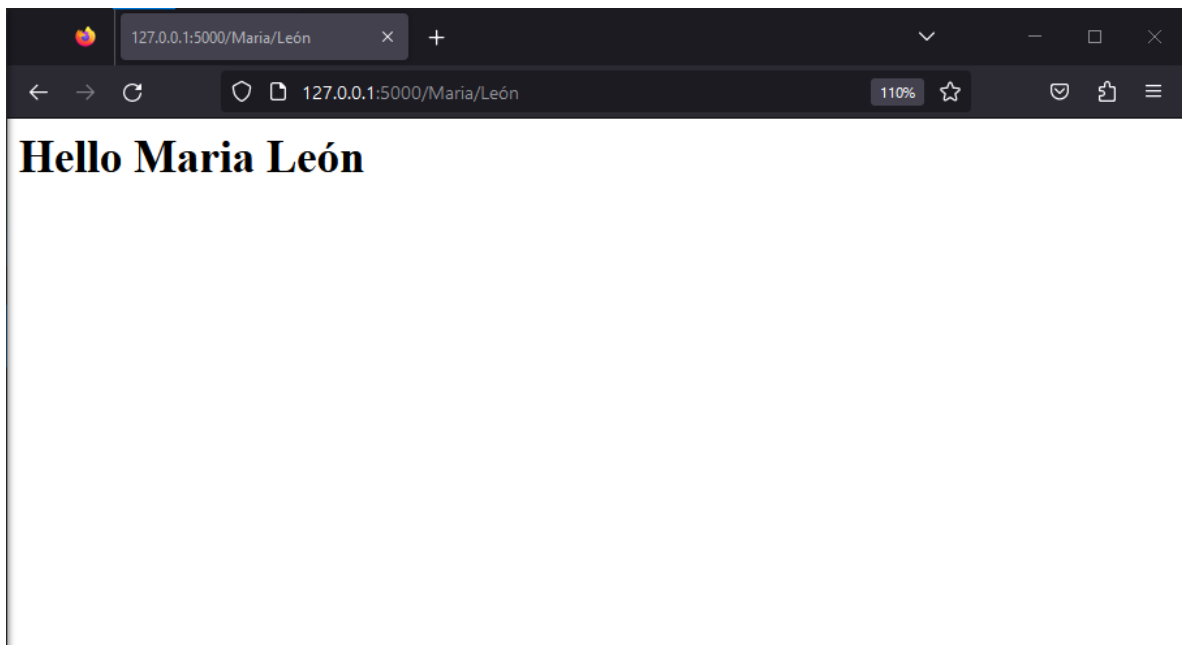
```
- Gabriel Barrón Rodríguez\\Unidad III\\review\\repaso.py', reloading
* Restarting with stat
* Debugger is active!
* Debugger PIN: 576-201-892
127.0.0.1 - - [31/Jul/2023 16:36:56] "GET /Maria HTTP/1.1" 200 -
* Detected change in 'C:\\Users\\Maribel\\Documents\\Ingeniería en Redes Inteligentes y Cib
erseguridad\\Cuatrimestre 3 (Mayo - Agosto 2023)\\Automatización de Infratestructura Digital
- Gabriel Barrón Rodríguez\\Unidad III\\review\\repaso.py', reloading
* Restarting with stat
* Debugger is active!
* Debugger PIN: 576-201-892
127.0.0.1 - - [31/Jul/2023 16:40:24] "GET /Maria HTTP/1.1" 200 -
```



The screenshot shows the Visual Studio Code editor with a file named `repaso.py` open. The code is a Flask application that defines a `welcome()` function and a `greeting(nombre, apellido)` function. The terminal at the bottom shows the command `flask --app repaso run --debug` being executed, and the output indicates that the application is running on `http://127.0.0.1:5000`. The status bar at the bottom shows the file is on line 13, column 43, and the Python version is 3.11.4 64-bit.

```
1 from flask import Flask
2
3 app = Flask(__name__)
4
5 '''
6 @app.get('/')
7 def welcome():
8     return '<h1>Welcome Comeback</h1>'
9 '''
10
11 @app.get('/<nombre>/<apellido>')
12 def greeting(nombre, apellido):
13     return f'<h1>Hello {nombre} {apellido}</h1>'
14
15
```

3 (Mayo - Agosto 2023)\Automatización de Infratestructura Digital - Gabriel Barrón Rodrigue  
z\Unidad III\review> flask --app repaso run --debug  
\* Serving Flask app 'repaso'  
\* Debug mode: on  
WARNING: This is a development server. Do not use it in a production deployment. Use a produ  
ction WSGI server instead.  
\* Running on http://127.0.0.1:5000  
Press CTRL+C to quit  
\* Restarting with stat  
\* Debugger is active!  
\* Debugger PIN: 576-201-892  
127.0.0.1 - - [31/Jul/2023 16:48:06] "GET /Maria/León HTTP/1.1" 200 -



server.py - review - Visual Studio Code

EXPLORADOR

REVIEW

- > \_\_pycache\_\_
- + repaso.py
- + server.py

server.py

```
1 from flask import Flask, jsonify
2
3 app = Flask(__name__)
4
5 estudiantes = [
6     {'numero_control':1220100603, 'nombre':'ANZO AVALOS MARIA CITLALLI'},
7     {'numero_control':1219100524, 'nombre':'ARREDONDO GONZALEZ DANIEL ENR'},
8     {'numero_control':1220100317, 'nombre':'DUARTE VELAZQUEZ DANIEL'},
9     {'numero_control':1220100629, 'nombre':'GUTIERREZ MARTINEZ VALERIA IV'},
10    {'numero_control':1220100632, 'nombre':'LUNA CANTERO ANGEL IVAN'},
11    {'numero_control':1220100209, 'nombre':'MARTINEZ RAMIREZ GUADALUPE MOI'},
12    {'numero_control':1220100053, 'nombre':'REYES MORALES SALVADOR'},
13    {'numero_control':1220100597, 'nombre':'SALAZAR LEON MARIA GUADALUPE'},
14    {'numero_control':1220100596, 'nombre':'TADEO MARTINEZ ALEJANDRO'},
15    {'numero_control':1220100075, 'nombre':'TORRES GARCIA JOSE ROGELIO'},
16    {'numero_control':1220100595, 'nombre':'TRANQUEÑO HERNANDEZ OSCAR ARM'}
17 ]
18
19 @app.get('/estudiantes')
20 def get_students():
21     return jsonify(estudiantes)
22
23
```

PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL

flask

PS C:\Users\Maribel\Documents\Ingeniería en Redes Inteligentes y Ciberseguridad\Cuatrimestre 3 (M  
ayo - Agosto 2023)\Automatización de Infraestructura Digital - Gabriel Barrón Rodríguez\Unidad I  
II\review> flask --app server run --debug  
\* Serving Flask app 'server'  
\* Debug mode: on  
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: 576-201-892  
127.0.0.1 - - [31/Jul/2023 16:59:39] "GET /estudiantes HTTP/1.1" 200 -

ESQUEMA LÍNEA DE TIEMPO

AWS: profile:lupisterraform

Lín. 22, col. 1 Espacios: 4 UTF-8 CRLF Python 3.11.4 64-bit

127.0.0.1:5000/estudiantes

127.0.0.1:5000/estudiantes 110%

JSON Datos sin procesar Encabezados

Guardar Copiar Contraer todo Expandir todo Filtro JSON

```
▼ 0:
  nombre:      "ANZO AVALOS MARIA CITLALLI"
  numero_control: 1220100603
▼ 1:
  nombre:      "ARREDONDO GONZALEZ DANIEL ENRIQUE"
  numero_control: 1219100524
▼ 2:
  nombre:      "DUARTE VELAZQUEZ DANIEL"
  numero_control: 1220100317
▼ 3:
  nombre:      "GUTIERREZ MARTINEZ VALERIA IVONNE"
  numero_control: 1220100629
▼ 4:
  nombre:      "LUNA CANTERO ANGEL IVAN"
  numero_control: 1220100632
▼ 5:
  nombre:      "MARTINEZ RAMIREZ GUADALUPE MONSERRAT"
  numero_control: 1220100209
▼ 6:
  nombre:      "REYES MORALES SALVADOR"
  numero_control: 1220100053
▼ 7:
  nombre:      "SALAZAR LEON MARIA GUADALUPE"
  numero_control: 1220100597
▼ 8:
  nombre:      "TADEO MARTINEZ ALEJANDRO"
  numero_control: 1220100596
▼ 9:
  nombre:      "TORRES GARCIA JOSE ROGELIO"
  numero_control: 1220100075
▼ 10:
  nombre:      "TRANQUEÑO HERNANDEZ OSCAR ARMANDO"
  numero_control: 1220100595
```

server.py - review - Visual Studio Code

```
server.py > ...
5  estudiantes = [
6      {'numero_control':1220100603, 'nombre':'ANZO AVALOS MARIA CITLALLI'},
7      {'numero_control':1219100524, 'nombre':'ARREDONDO GONZALEZ DANIEL ENRIQUE'},
8      {'numero_control':1220100317, 'nombre':'DUARTE VELAZQUEZ DANIEL'},
9      {'numero_control':1220100629, 'nombre':'GUTIERREZ MARTINEZ VALERIA IVONNE'},
10     {'numero_control':1220100632, 'nombre':'LUNA CANTERO ANGEL IVAN'},
11     {'numero_control':1220100209, 'nombre':'MARTINEZ RAMIREZ GUADALUPE MONSERRAT'},
12     {'numero_control':1220100053, 'nombre':'REYES MORALES SALVADOR'},
13     {'numero_control':1220100597, 'nombre':'SALAZAR LEON MARIA GUADALUPE'},
14     {'numero_control':1220100596, 'nombre':'TADEO MARTINEZ ALEJANDRO'},
15     {'numero_control':1220100075, 'nombre':'TORRES GARCIA JOSE ROGELIO'},
16     {'numero_control':1220100595, 'nombre':'TRANQUEÑO HERNANDEZ OSCAR ARMANDO'}
17 ]
18
19 '''@app.get('/estudiantes')
20 def get_students():
21     return jsonify(estudiantes), 200'''
22
23 @app.route('/estudiantes/<int:numero_control>', methods=['GET'])
24 def get_students(numero_control):
25     student = next((stu for stu in estudiantes if stu['numero_control'] == numero_control)
26 if student:
27     return jsonify(student)
28 else:
29     return jsonify({'message':'El estudiante no fue encontrado'})
30
```

PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL CODEWHISPERER REFERENCE LOG flask + -

utomatización de Infratestructura Digital - Gabriel Barrón Rodríguez\Unidad III\review> flask --app server run --debu  
g  
\* Serving Flask app 'server'  
\* Debug mode: on  
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: 576-201-892

0 0 AWS: profile:lupisterraform Lín. 17, col. 2 Espacios: 4 UTF-8 CRLF Python 3.11.4 64-bit

127.0.0.1:5000/estudiantes/1220100: X +

127.0.0.1:5000/estudiantes/1220100597 133% ☆

JSON Datos sin procesar Encabezados

Guardar Copiar Contraer todo Expandir todo Filtro JSON

▼ 0:

```
nombre: "SALAZAR LEON MARIA GUADALUPE"
numero_control: 1220100597
```

server.py - review - Visual Studio Code

EXPLORADOR

REVIEW

- > \_\_pycache\_\_
- repaso.py
- server.py

server.py

```
2
3 app = Flask(__name__)
4
5 estudiantes = [
6     {'numero_control':1220100603, 'nombre':'ANZO AVALOS MARIA CITLALLI'},
7     {'numero_control':1219100524, 'nombre':'ARREDONDO GONZALEZ DANIEL ENR'},
8     {'numero_control':1220100317, 'nombre':'DUARTE VELAZQUEZ DANIEL'},
9     {'numero_control':1220100629, 'nombre':'GUTIERREZ MARTINEZ VALERIA IW'},
10    {'numero_control':1220100632, 'nombre':'LUNA CANTERO ANGEL IVAN'},
11    {'numero_control':1220100209, 'nombre':'MARTINEZ RAMIREZ GUADALUPE MOI'},
12    {'numero_control':1220100053, 'nombre':'REYES MORALES SALVADOR'},
13    {'numero_control':1220100597, 'nombre':'SALAZAR LEON MARIA GUADALUPE'},
14    {'numero_control':1220100596, 'nombre':'TADEO MARTINEZ ALEJANDRO'},
15    {'numero_control':1220100075, 'nombre':'TORRES GARCIA JOSE ROGELIO'},
16    {'numero_control':1220100595, 'nombre':'TRANQUEÑO HERNANDEZ OSCAR ARM'},
17 ]
18
19 @app.get('/estudiantes')
20 def get_students():
21     return jsonify(estudiantes)
22
23
24 @app.get('/estudiantes/<numero_control>')
25 def get_students(numero_control):
26     pass
27
28 @app.post('/estudiantes')
29 def add_estudiante():
30     datos = request.get_json()
31     estudiantes.append(datos)
32     return {'Success':'Registro agregado con éxito'}, 201
33
```

PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL

flask

```
* Debugger is active!
* Debugger PIN: 576-201-892
* Detected change in 'C:\\Users\\Maribel\\Documents\\Ingeniería en Redes Inteligentes y Ciberseg
uridad\\Cuatrimestre 3 (Mayo - Agosto 2023)\\Automatización de Infraestructura Digital - Gabriel
Barrón Rodríguez\\Unidad III\\review\\server.py', reloading
* Restarting with stat
* Debugger is active!
* Debugger PIN: 576-201-892
127.0.0.1 - - [31/Jul/2023 17:28:04] "GET /estudiantes HTTP/1.1" 200 -
```

ESQUEMA

LÍNEA DE TIEMPO

AWS: profile:lupisterraform

Lín. 18, col. 1 Espacios: 4 UTF-8 CRLF Python 3.11.4 64-bit

Postman interface showing a GET request to `http://127.0.0.1:5000/estudiantes`. The response is a JSON array of student records.

**Request:** GET `http://127.0.0.1:5000/estudiantes`

**Response:** 200 OK, 14 ms, 1.11 KB

**Body (JSON):**

```
[{"nombre": "ANZO AVALOS MARIA CITLALLI", "numero_control": 1228188683}, {"nombre": "ARREDONDO GONZALEZ DANIEL ENRIQUE", "numero_control": 1219188524}, {"nombre": "DUARTE VELAZQUEZ DANIEL", "numero_control": 1228188317}]
```

Postman interface showing a POST request to `http://127.0.0.1:5000/estudiantes`. The request body is a JSON object, and the response is a success message.

**Request:** POST `http://127.0.0.1:5000/estudiantes`

**Request Body (JSON):**

```
{ "numero_control": 1228188613, "nombre": "VARGAS L\u00d3PEZ JUAN" }
```

**Response:** 201 CREATED, 37 ms, 222 B

**Body (JSON):**

```
{ "Success": "Registro agregado con \u00e9xito" }
```



HomeWorkspacesAPI NetworkExplore

Search Postman

Invite

Upgrade

My Workspace

NewImport

AutomatizaciónGET Get\_EstudiantePOST Add\_Estudiante

No Environment

Collections

Automatización

GET Get\_Estudiante

POST Add\_Estudiante

Big Data

Programación de Redes

Automatización / Get\_Estudiante

Save

Send

GET

http://127.0.0.1:5000/estudiantes

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

Key	Value	Description
Key	Value	Description

Body

Cookies

Headers (5)

Test Results

200 OK12 ms1.2 KB

Save as Example

Pretty

Raw

Preview

Visualize

JSON

```
38  {
39    "nombre": "TORRES GARCIA JOSE ROGELIO",
40    "numero_control": 1228188875
41  },
42  {
43    "nombre": "TRANQUEÑO HERNANDEZ OSCAR ARMANDO",
44    "numero_control": 1228188595
45  },
46  {
47    "nombre": "VARGAS LÓPEZ JUAN",
48    "numero_control": 1228188613
49  }
50 }
```

Online

Find and replace

Console

Runner

Capture requests

Cookies

Trash