Developing an API for a Distributed Environment:

api.py

```
app = Flask( name )
api = Api(app)
users = [
    def get(self, name):
    def post(self, name):
       parser = reqparse.RequestParser()
    def put(self, name):
```

```
for user in users:
    if (name == user["name"]):
        user["age"] = args["age"]
        user["occupation"] = args["occupation"]
        return user, 200

user = {
        "name": name,
        "age": args["age"],
        "occupation": args["occupation"]
    }
    users.append(user)
    return user, 201

def delete(self, name):
    global users
    users = [user for user in users if user["name"] != name]
    return "{} is deleted.".format(name), 200

api.add_resource(User, "/user/<string:name>")
app.run(debug=True)
```

Question 1:

Run the API.py code. Take a screenshot of the terminal output. What command did you use to compile and run the code?

```
* Serving Flask app 'api' (lazy loading)

* Environment: production
    WARNING: This is a development server. Do not use it in a production deployment.
    Use a production WSGI server instead.

* Debug mode: on

* Running on <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a> (Press CTRL+C to quit)

* Restarting with stat

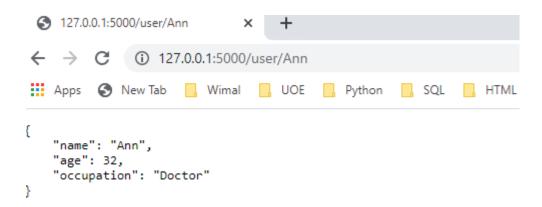
* Debugger is active!

* Debugger PIN: 557-066-859
```

The command used: python api.py

Question 2:

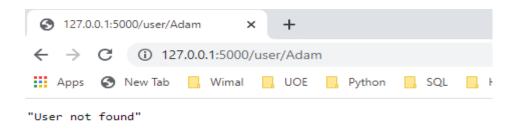
Run the following command at the terminal prompt: w3m http://127.0.0.1:5000/user/Ann What happens when this command is run, and why?



http://127.0.0.1:5000/user/Ann calls the endpoint user with Ann as the parameter. Since the method is GET it returns the above result

Question 3:

Run the following command at the terminal prompt: w3m http://127.0.0.1:5000/user/Adam What happens when this command is run, and why?



<u>http://127.0.0.1:5000/user/Adam</u> follows the same method as above but returns an error because there is no "Adam" in users.

Question 4:

What capability is achieved by the flask library? Libraries allow you to run a web application