Assignment

PW SKILLS

Q1. Explain GET and POST methods.

Answer.

GET

GET is the most used HTTP method and it is typically used to retrieve information from a web server.

POST

POST is commonly used to send information to web server. It is more often used when uploading a file, getting form data and sending sensitive data. POST is a secure way to send data to a web server.

Q2. Why is request used in Flask?

Answer:

Request is used in Flask to access the incoming data in Flask, you have to use the request object. The request object holds all incoming data from the request, which includes the mime type, referrer, IP address, raw data, HTTP method, and headers, among other things.

Q3. Why is redirect() used in Flask?

Answer: Flask redirect is defined as a function or utility in Flask which allows developers to redirect users to a specified URL and assign a specified status code. When this function is called, a response object is returned, and the redirection happens to the target location with the status code.

Q4. What are templates in Flask? Why is the render_template() function used?

Answer: Templates are files that contain static data as well as placeholders for dynamic data. A template is rendered with specific data to produce a final document.

render_template is used to generate output from a template file based on the Jinja2 engine that is found in the application's templates folder. Note that render_template is typically imported directly from the flask package instead of from flask.

Q5. Create a simple API. Use Postman to test it. Attach the screenshot of the output in the Jupyter Notebook.

Answer:

```
@app.route('/postman_action',methods=['POST'])
def math_ops1():
    if(request.method == 'POST'):
        ops = request.json['operation']
        num1 = int(request.json['num1'])
        num2 = int(request.json['num2'])
        if ops == 'add':
            r = num1+num2
            result = "The sum of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
        if ops == 'subtract':
            r = num1-num2
            result = "The subtract of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
        if ops == 'multiply':
            r = num1*num2
            result = "The multiply of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
        if ops == 'divide':
            r = num1/num2
            result = "The divide of " + str(num1) + 'and ' + str(num2) + "is " + str(r)

        return jsonify(result)

if __name__=="__main__":
```

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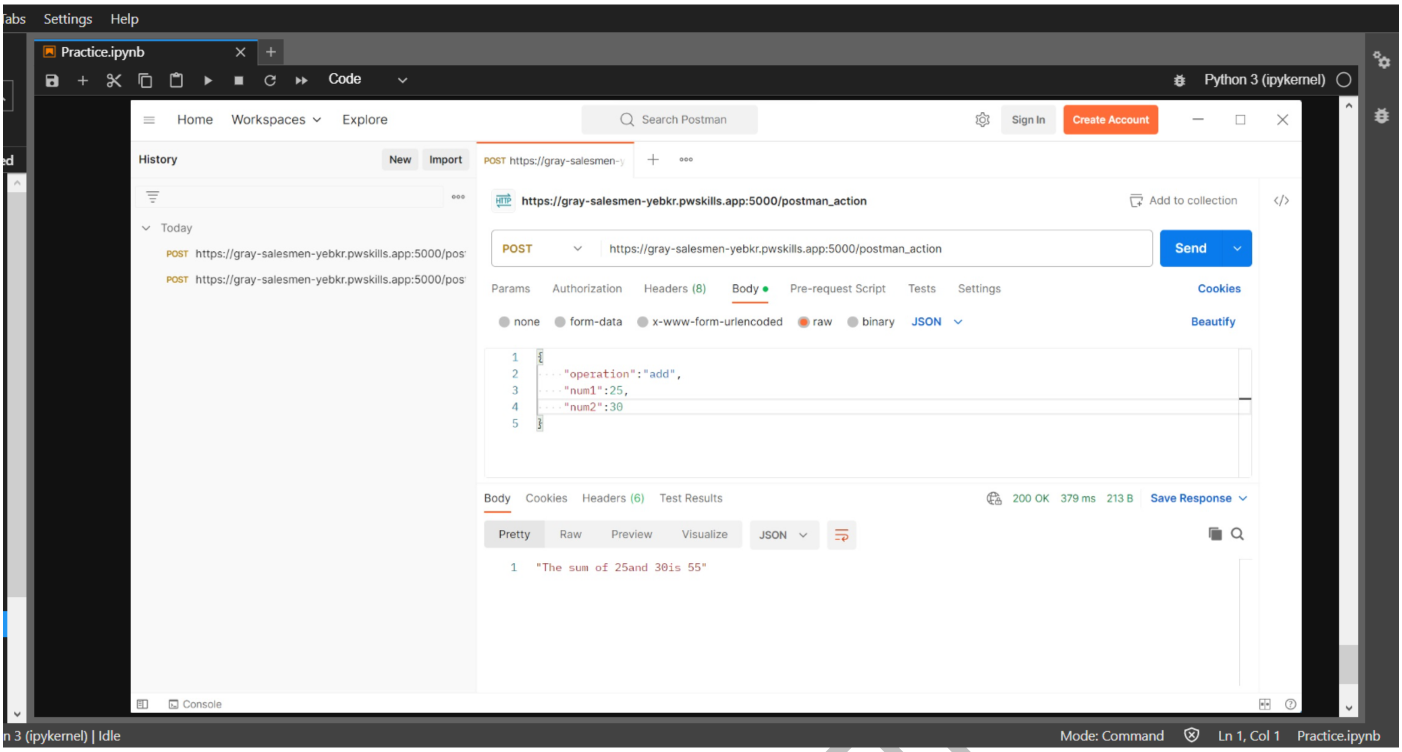
```
app.run(host="0.0.0.0")
```


Tabs Settings Help
Practice.ipynb
Code
Python 3 (ipykernel)
Home Workspaces Explore
Search Postman
Sign In
Create Account
History
New
Import
Today
POST https://gray-salesmen-yebkr.pwskills.app:5000/pos
POST https://gray-salesmen-yebkr.pwskills.app:5000/pos
Add to collection
Send
Params Authorization Headers (8) Body Pre-request Script Tests Settings
Cookies
none form-data x-www-form-urlencoded raw binary JSON
Beautify
Body Cookies Headers (6) Test Results
Save Response
Pretty Raw Preview Visualize JSON
Console
n 3 (ipykernel) | Idle
Mode: Command
Ln 1, Col 1
Practice.ipynb

POST https://gray-salesmen-yebkr.pwskills.app:5000/postman_action

```
{
    "operation":"add",
    "num1":25,
    "num2":30
}
```

200 OK 379 ms 213 B

```
"The sum of 25and 30is 55"
```

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