

Exercise 1

GET request:

```
saihemanthmaremalla — -zsh — 80x24
Last login: Sat Jul  8 23:50:09 on ttys000
[saihemanthmaremalla@Sais-MBP ~ % curl -X GET https://michaelgathara.com/api
You have some options on endpoints here:
--- GET & POST ---
https://michaelgathara.com/api
(GET: prints out this page
POST: tells you what request you hit)

--- GET ONLY ---
https://michaelgathara.com/api/cool-things
(Returns a JSON string of some programming languages and their descriptions)

https://michaelgathara.com/api/verify-token
(GET: Send an API token of 100 and if you do it right, you get told you did it
right)

--- POST ONLY ---
https://michaelgathara.com/api/new-student
(POST: Send your name and blazerid and add yourself to the database)

saihemanthmaremalla@Sais-MBP ~ %
```

POST request:

```
saihemanthmaremalla — -zsh — 80x24
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--- POST ONLY ---
https://michaelgathara.com/api/new-student
(POST: Send your name and blazerid and add yourself to the database)

[saihemanthmaremalla@Sais-MBP ~ % curl -X POST https://michaelgathara.com/api
You hit POST request
saihemanthmaremalla@Sais-MBP ~ %
```

Verify token with the key 100:

```
saihemanthmaremalla — -zsh — 80x24

You have some options on endpoints here:
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POST: tells you what request you hit)

--- GET ONLY ---
https://michaelgathara.com/api/cool-things
(Returns a JSON string of some programming languages and their descriptions)

https://michaelgathara.com/api/verify-token
(GET: Send an API token of 100 and if you do it right, you get told you did it
right)

--- POST ONLY ---
https://michaelgathara.com/api/new-student
(POST: Send your name and blazerid and add yourself to the database)

[saihemanthmaremalla@Sais-MBP ~ % curl -X POST https://michaelgathara.com/api
You hit POST request
[saihemanthmaremalla@Sais-MBP ~ % curl -H "x-api-key:100" https://michaelgathara.
com/api/verify-token
API token is valid
saihemanthmaremalla@Sais-MBP ~ % █
```

Verifying token with the key that is other than 100:

```
saihemanthmaremalla — -zsh — 80x24

(GET: prints out this page
POST: tells you what request you hit)

--- GET ONLY ---
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(Returns a JSON string of some programming languages and their descriptions)

https://michaelgathara.com/api/verify-token
(GET: Send an API token of 100 and if you do it right, you get told you did it
right)

--- POST ONLY ---
https://michaelgathara.com/api/new-student
(POST: Send your name and blazerid and add yourself to the database)

[saihemanthmaremalla@Sais-MBP ~ % curl -X POST https://michaelgathara.com/api
You hit POST request
[saihemanthmaremalla@Sais-MBP ~ % curl -H "x-api-key:100" https://michaelgathara.
com/api/verify-token
API token is valid
[saihemanthmaremalla@Sais-MBP ~ % curl -H "x-api-key:500" https://michaelgathara.
com/api/verify-token
Invalid API token
saihemanthmaremalla@Sais-MBP ~ % █
```

New student api - /api/new-student POST request:

```
saihemanthmaremalla — zsh — 80x24

(Returns a JSON string of some programming languages and their descriptions)

https://michaelgathara.com/api/verify-token
(GET: Send an API token of 100 and if you do it right, you get told you did it
right)

--- POST ONLY ---
https://michaelgathara.com/api/new-student
(POST: Send your name and blazerid and add yourself to the database)

[saihemanthmaremalla@Sais-MBP ~ % curl -X POST https://michaelgathara.com/api
You hit POST request
[saihemanthmaremalla@Sais-MBP ~ % curl -H "x-api-key:100" https://michaelgathara.18
com/api/verify-token
API token is valid
[saihemanthmaremalla@Sais-MBP ~ % curl -H "x-api-key:500" https://michaelgathara.]
com/api/verify-token
Invalid API token
[saihemanthmaremalla@Sais-MBP ~ % curl -X POST -H "Content-Type:application/json"
-d '{"name":"Sai Hemanth Maremalla","blazerid":"smaremal"}' https://michaelgath
ara.com/api/new-student
You created a new record: {"name":"Sai Hemanth Maremalla","blazerid":"smaremal",
"id":17}
saihemanthmaremalla@Sais-MBP ~ %
```

Exercise-2

```
index.ipynb U X
lab05 > index.ipynb > pip install requests

+ Code + Markdown | ▶ Run All | Clear All Outputs | Outline | ... | Select Kernel

import requests
import json

BASE_URL = "https://michaelgathara.com/api/"
BlazerId = 'smaremal'
UserName = 'Sai Hemanth Maremalla'

myrequest = requests.get(BASE_URL + "python-challenge")

pyChallenge = myrequest.json()

print("api Response: ", pyChallenge)

[2] Python
... api Response: [{'id': 1, 'problem': '3 + 5'}, {'id': 2, 'problem': '7 * 6'}, {'id': 3, 'problem': '20 / 5'}, {'id': 4, 'problem': '20 / 4'}, {'id': 5, 'problem': '15 - 7'}, {'i

print("Blazer Id :", BlazerId)
print("User Name :", UserName)
for item in pyChallenge:
    print("id :", item['id'], ',',"Answer:", eval(item['problem'].replace('?',''))))

[3] Python
... Blazer Id : smaremal
User Name : Sai Hemanth Maremalla
id : 1 , Answer: 8
id : 2 , Answer: 42
id : 3 , Answer: 4.0
id : 4 , Answer: 5.0
id : 5 , Answer: 8
id : 6 , Answer: 81
id : 7 , Answer: 3.0
id : 8 , Answer: 44
id : 9 , Answer: 40
id : 10 , Answer: 8.0
```