

Jonah Aney 04/27/25 CSD325 Module 9.2 Assignments: APIs - Part 1

4. API tutorial

Code 404:

```
1 # Jonah Aney CSD325 Module 9.2 Assignment: APIs
2
3 # import request library for API requests
4 import requests
5 # making a GET request
6 response = requests.get("http://api.open-notify.org/this-api-doesnt-exist")
7 print(response.status_code)
8
```

Run J_Aney module-9 API 1 x

C:\Users\Jonah\csd\csd-325\module-9\.venv\Scripts\python.exe "C:\Users\Jonah\csd\csd-325\module-9\J_Aney module-9 API 1.py"
404

Code 200:

```
# Jonah Aney CSD325 Module 9.2 Assignment: APIs

# import request library for API requests
import requests
# making a GET request
response = requests.get("http://api.open-notify.org/astros")
print(response.status_code)
```

n J_Aney module-9 API 1 x

C:\Users\Jonah\csd\csd-325\module-9\.venv\Scripts\python.exe "C:\Users\Jonah\csd\csd-325\module-9\J_Aney module-9 API 1.py"
200

Process finished with exit code 0

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5. Retrieving current astronauts and formatting output screenshots:

```
C:\Users\Jonah\csd\csd-325\module-9\.venv\Scripts\python.exe "C:\Users\Jonah\csd\csd-325\module-9\J_Aney module-9 API 1.py"
{'people': [{'craft': 'ISS', 'name': 'Oleg Kononenko'}, {'craft': 'ISS', 'name': 'Nikolai Chub'}, {'craft': 'ISS', 'name': 'Tracy Caldwell Dyson'}, {'craft': 'ISS', 'name': 'Matthew Dominick'}, {'craft': 'ISS', 'name': 'Michael Barratt'}, {'craft': 'ISS', 'name': 'Jeanette Epps'}]}
{
  "message": "success",
  "number": 12,
  "people": [
    {
      "craft": "ISS",
      "name": "Oleg Kononenko"
    },
    {
      "craft": "ISS",
      "name": "Nikolai Chub"
    },
    {
      "craft": "ISS",
      "name": "Tracy Caldwell Dyson"
    },
    {
      "craft": "ISS",
      "name": "Matthew Dominick"
    },
    {
      "craft": "ISS",
      "name": "Michael Barratt"
    },
    {
      "craft": "ISS",
      "name": "Jeanette Epps"
    }
  ]
}
```

```
{
  "craft": "ISS",
  "name": "Alexander Grebenkin"
},
{
  "craft": "ISS",
  "name": "Butch Wilmore"
},
{
  "craft": "ISS",
  "name": "Sunita Williams"
},
{
  "craft": "Tiangong",
  "name": "Li Guangsu"
},
{
  "craft": "Tiangong",
  "name": "Li Cong"
},
{
  "craft": "Tiangong",
  "name": "Ye Guangfu"
}
]
}

Process finished with exit code 0
```

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6. Simple API example. Non-formatted output:

```
# Jonah Aney CSD325 Module 9.2 Assignment: APIs
# #6-simple APIs - pokeAPI

import requests
# making a GET request
response = requests.get("https://pokeapi.co/api/v2/berry/cheri")
# view the data
print(response.json())
```

Run J_Aney Module-9 API 2

```
C:\Users\Jonah\csd\csd-325\module-9\.venv\Scripts\python.exe "C:\Users\Jonah\csd\csd-325\module-9\J_Aney Module-9 API 2.py"
{'firmness': {'name': 'soft', 'url': 'https://pokeapi.co/api/v2/berry-firmness/2/'}, 'flavors': [{'flavor': {'name': 'spicy', 'url': 'https://pokeapi.co/api/v2/berry-flavor/1/'}, 'potency': 10}, {'flavor': {'name': 'dry', 'url': 'https://pokeapi.co/api/v2/berry-flavor/2/'}, 'potency': 0}, {'flavor': {'name': 'sweet', 'url': 'https://pokeapi.co/api/v2/berry-flavor/3/'}, 'potency': 0}]}
Process finished with exit code 0
```

Output formatted as tutorial:

```
C:\Users\Jonah\csd\csd-325\module-9\.venv\Scripts\python.exe "C:\Users\Jonah\csd\csd-325\module-9\J_Aney Module-9 API 2.py"
{
  "firmness": {
    "name": "soft",
    "url": "https://pokeapi.co/api/v2/berry-firmness/2/"
  },
  "flavors": [
    {
      "flavor": {
        "name": "spicy",
        "url": "https://pokeapi.co/api/v2/berry-flavor/1/"
      },
      "potency": 10
    },
    {
      "flavor": {
        "name": "dry",
        "url": "https://pokeapi.co/api/v2/berry-flavor/2/"
      },
      "potency": 0
    },
    {
      "flavor": {
        "name": "sweet",
        "url": "https://pokeapi.co/api/v2/berry-flavor/3/"
      },
      "potency": 0
    }
  ]
}
```