## Nima Memarzadeh Module 9.2

```
test_connection.py > ...
import requests

# Test connection to Google's website

response = requests.get('http://www.google.com')

print(response.status_code)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS > zsh

nimamemarzadeh@Nimas-MacBook-Pro module-9-py % python3 test_connection.py

200
```

```
from datetime import datetime, timezone
   def get_iss_location():
        url = 'http://api.open-notify.org/iss-now.json'
        response = requests.get(url)
        response.raise_for_status()
        data = response.json()
        position = data['iss_position']
        latitude = position['latitude']
        longitude = position['longitude']
        timestamp = datetime.fromtimestamp(data['timestamp'], tz=timezone.utc).strftime('%Y-%m-%d %H:%M:%S')
        print(f"As of {timestamp} UTC, the ISS is at latitude {latitude} and longitude {longitude}.")
   def get_astronauts():
        url = 'http://api.open-notify.org/astros.json'
        response = requests.get(url)
        response.raise_for_status()
        data = response.json()
        print("\nAstronauts in space:")
        print(data)
        print("\nBetter formatted results:")
        print("--
        print(f"\nThere are {data['number']} astronauts in space right now:\n")
        for person in data['people']:
             print(f"{person['name']} aboard the {person['craft']}")
   def main():
             get_iss_location()
            get_astronauts()
        except requests.exceptions.RequestException as e:
             print(f"Error occurred: {e}")
        except Exception as e:
            print(f"Unexpected error: {e}")
   if __name__ == "__main__":
       main()
nimamemarzadeh@Nimas-MacBook-Pro module-9-py % python3 retrieve_astronauts.py
As of 2024-12-04 17:12:26 UTC, the ISS is at latitude -30.6173 and longitude 66.3637.
Astronauts in space:
Better formatted results:
There are 12 astronauts in space right now:
Oleg Kononenko aboard the ISS
Nikolai Chub aboard the ISS
Tracy Caldwell Dyson aboard the ISS
Matthew Dominick aboard the ISS
Michael Barratt aboard the ISS
Jeanette Epps aboard the ISS
Jeanette Epps aboard the ISS
Alexander Grebenkin aboard the ISS
Butch Wilmore aboard the ISS
Sunita Williams aboard the ISS
Li Guangsu aboard the Tiangong
Li Cong aboard the Tiangong
Ye Guangfu aboard the Tiangong
Ye Guangfu aboard the Tiangong
nimamemarzadeh@Nimas-MacBook-Pro module-9-py %
```

```
nimamemarzadeh@Nimas-MacBook-Pro module-9-py % python3 starship_details.py
 Connection successful!
Unformatted Response:
Unformatted Response: {"name":"Millennium Falcon", "model":"YT-1300 light freighter", "manufacturer":"Corellian Engineering Corp oration", "cost_in_credits":"100000", "length":"34.37", "max_atmosphering_speed":"1050", "crew":"4", "passeng ers":"6", "cargo_capacity":"100000", "consumables":"2 months", "hyperdrive_rating":"0.5", "MGLT":"75", "stars hip_class":"Light freighter", "pilots":["https://swapi.dev/api/people/13/", "https://swapi.dev/api/people/14/", "https://swapi.dev/api/people/25/", "https://swapi.dev/api/people/31/"], "films":["https://swapi.dev/api/films/1/", "https://swapi.dev/api/films/2/", "https://swapi.dev/api/films/3/"], "created":"2014-12-10T1 6:59:45.094000Z", "edited":"2014-12-20T21:23:49.880000Z", "url":"https://swapi.dev/api/starships/10/"}
 Formatted Response:
           "name": "Millennium Falcon",
"model": "YT-1300 light freighter",
"manufacturer": "Corellian Engineering Corporation",
           "cost_in_credits": "100000",
"length": "34.37",
"max_atmosphering_speed": "1050",
           "max_atmosphering_speed": "1050",
"crew": "4",
"passengers": "6",
"cargo_capacity": "100000",
"consumables": "2 months",
"hyperdrive_rating": "0.5",
"MGLT": "75",
"starship_class": "Light freighter",
"pilots": [
            "pilots": [
                       "https://swapi.dev/api/people/13/",
                      "https://swapi.dev/api/people/14/",
"https://swapi.dev/api/people/25/",
"https://swapi.dev/api/people/31/"
           ],
"films": [
                       "https://swapi.dev/api/films/1/",
                      "https://swapi.dev/api/films/2/"
                      "https://swapi.dev/api/films/2/",
"https://swapi.dev/api/films/3/"
           ],
"created": "2014-12-10T16:59:45.094000Z",
"edited": "2014-12-20T21:23:49.880000Z",
"url": "https://swapi.dev/api/starships/10/"
 Additional Details: for better readability
Starship Details:
Name: Millennium Falcon
Model: YT-1300 light freighter
Manufacturer: Corellian Engineering Corporation
 Cost in Credits: 100000
 Length: 34.37 meters
 Crew: 4
Passengers: 6
```