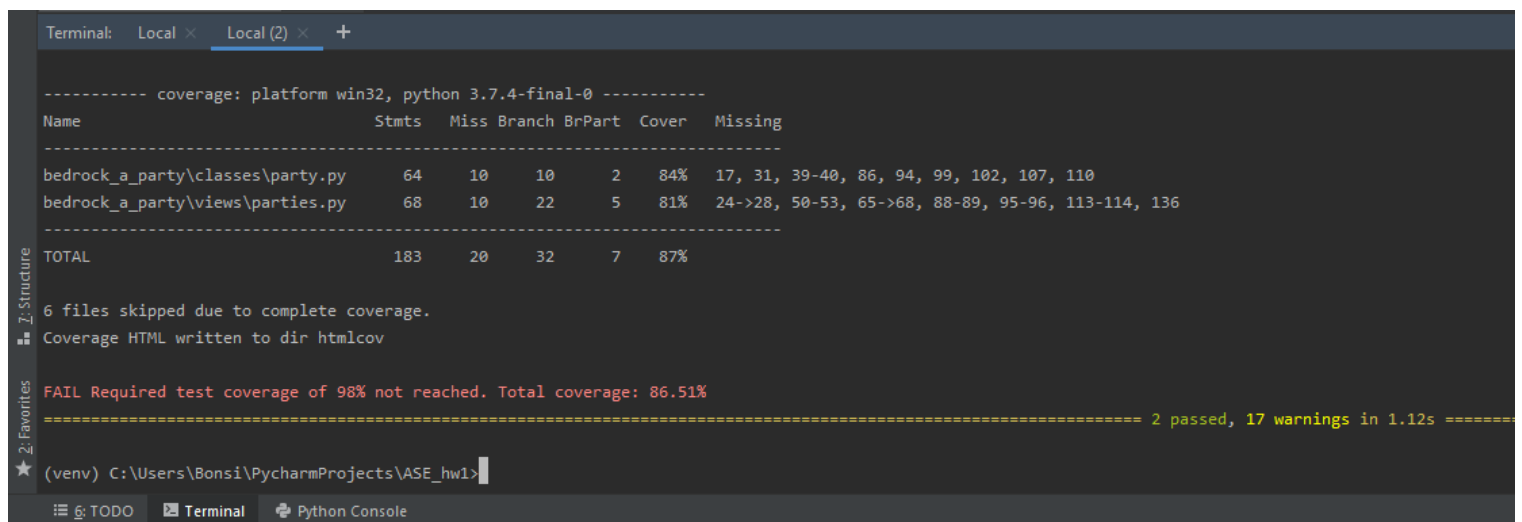# Homework 1

by Riccardo Bonini

The solution can be found at the following link:
https://github.com/RiccardoBonini/ASE_Homework1

For the implementation of the solution to the first Homework, the Pycharm IDE has been used. The following images will show the successful execution of *pytest* and various tests done by means of Postman.

Figure 1: successful execution of *pytest*

With Postman, all the 13 tests in the *test_party.py* file were reproduced.
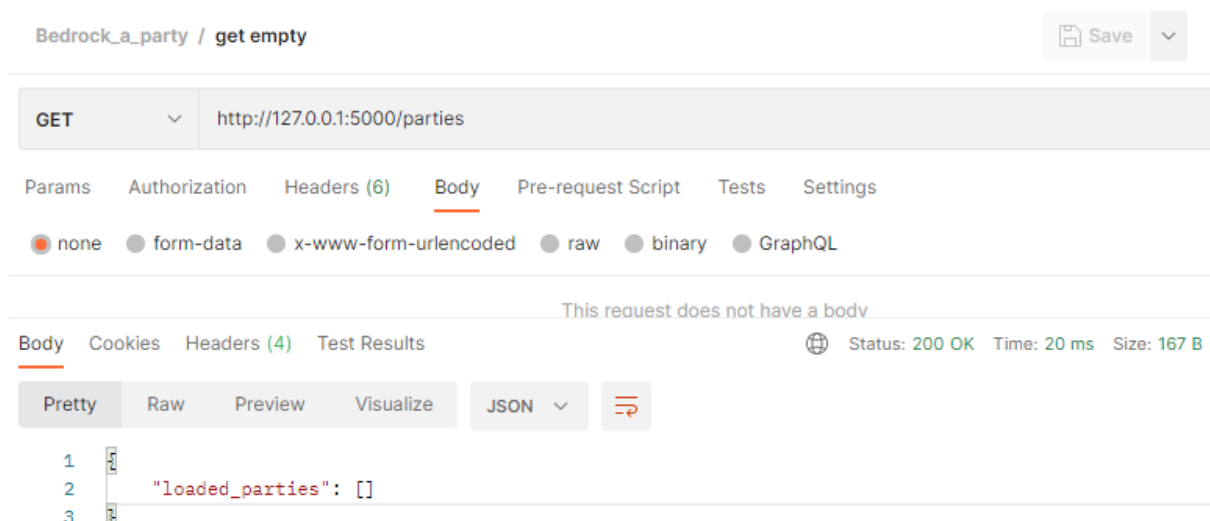

Figure 2: first test (GET when there's no party)

Bedrock_a_party / **first party**   💾 Save ∨

| POST ∨ | http://127.0.0.1:5000/parties |

Params   Authorization   Headers (8)   **Body** ●   Pre-request Script   Tests   Settings

● none   ● form-data   ● x-www-form-urlencoded   ⦿ raw   ● binary   ● GraphQL   **JSON** ∨

```
1  {"guests" : ["Giacomo", "Francesco", "Federico"]}
```

Body   Cookies   Headers (4)   Test Results   ⊕ Status: 200 OK   Time: 14 ms   Size: 164 B

Pretty   Raw   Preview   Visualize   JSON ∨   ⇥

```
1  {
2      "party_number": 0
3  }
```

Figure 3: second test (create a party)

Bedrock_a_party / **second party**   💾 Save ∨

| POST ∨ | http://127.0.0.1:5000/parties |

Params   Authorization   Headers (8)   **Body** ●   Pre-request Script   Tests   Settings

● none   ● form-data   ● x-www-form-urlencoded   ⦿ raw   ● binary   ● GraphQL   **JSON** ∨

```
1  {
2          "guests": [
3              "Giacomo",
4              "Francesco",
5              "Federico"
6          ]
7  }
```

Body   Cookies   Headers (4)   Test Results   ⊕ Status: 200 OK   Time: 6 ms   Size: 164 B

Pretty   Raw   Preview   Visualize   JSON ∨   ⇥

```
1  {
2      "party_number": 1
3  }
```

Figure 4: third test (create a party)

Bedrock_a_party / **third party**   💾 Save ∨

POST ∨   http://127.0.0.1:5000/parties

Params   Authorization   Headers (8)   Body ●   Pre-request Script   Tests   Settings

○ none   ○ form-data   ○ x-www-form-urlencoded   ● raw   ○ binary   ○ GraphQL   JSON ∨

```
1  {
2      "guests": [
3          "Giacomo",
4          "Francesco",
5          "Federico"
6      ]
7  }
```

Body   Cookies   Headers (4)   Test Results   ⊕ Status: 200 OK   Time: 6 ms   Size: 164 B

Pretty   Raw   Preview   Visualize   JSON ∨   ⇄

```
1  {
2      "party_number": 2
3  }
```

Figure 5: fourth test (create a party)

Bedrock_a_party / **get the number of parties** ✎ 🔗   💾 Save ∨

GET ∨   http://127.0.0.1:5000/parties/loaded

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body   Cookies   Headers (4)   Test Results   ⊕ Status: 200 OK   Time: 5 ms   Size: 166 B

Pretty   Raw   Preview   Visualize   JSON ∨   ⇄

```
1  {
2      "loaded_parties": 3
3  }
```

Figure 6: fifth test (retrieving the number of planned parties)

Bedrock_a_party / get all the parties   Save ⌄

GET ⌄   http://127.0.0.1:5000/parties

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body   Cookies   Headers (4)   Test Results   Status: 200 OK   Time: 5 ms   Size: 368 B

Pretty   Raw   Preview   Visualize   JSON ⌄

```
 1  {
 2      "loaded_parties": [
 3          {
 4              "foodlist": [],
 5              "guests": [
 6                  "Giacomo",
 7                  "Francesco",
 8                  "Federico"
 9              ],
10              "id": 0
11          },
12          {
13              "foodlist": [],
14              "guests": [
15                  "Giacomo",
16                  "Francesco",
17                  "Federico"
18              ],
19              "id": 1
20          },
21          {
22              "foodlist": [],
23              "guests": [
24                  "Giacomo",
25                  "Francesco",
26                  "Federico"
27              ],
28              "id": 2
29          }
30      ]
31  }
```

Figure 7: sixth test (retrieving the information about all the planned parties)

Bedrock_a_party / don't party alone!   Save ⌄

POST ⌄ http://127.0.0.1:5000/parties

Params   Authorization   Headers (8)   Body ●   Pre-request Script   Tests   Settings

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON ⌄

```
1  {
2          "guests": []
3  }
```

Body   Cookies   Headers (4)   Test Results   ⊕ Status: 400 BAD REQUEST   Time: 6 ms   Size: 367 B

Pretty   Raw   Preview   Visualize   JSON ⌄   ⇥

```
1  {
2      "code": 400,
3      "description": "The browser (or proxy) sent a request that this server could not understand.",
4      "message": "400 Bad Request: The browser (or proxy) sent a request that this server could not understand."
5  }
```

Figure 8: seventh test (trying to create a party with no guests)

Bedrock_a_party / retrieve existing party   Save ⌄

GET ⌄ http://127.0.0.1:5000/party/2

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body   Cookies   Headers (4)   Test Results   ⊕ Status: 200 OK   Time: 5 ms   Size: 212 B

Pretty   Raw   Preview   Visualize   JSON ⌄   ⇥

```
1  {
2      "foodlist": [],
3      "guests": [
4          "Giacomo",
5          "Francesco",
6          "Federico"
7      ],
8      "id": 2
9  }
```

Figure 9: eighth test (getting information about a specific party)

GET http://127.0.0.1:5000/party/100 Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION		Bulk Edit
Key	Value	Description		

Body Cookies Headers (4) Test Results Status: 404 NOT FOUND Time: 4 ms Size: 451 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2      "code": 404,
3      "description": "The requested URL was not found on the server. If you entered the URL manually please check your spelling and try again.",
4      "message": "404 Not Found: The requested URL was not found on the server. If you entered the URL manually please check your spelling and try again."
5  }
```

Figure 10: ninth test (getting information about a non-existing party)

POST http://127.0.0.1:5000/party/2/foodlist/Francesco/pizza

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (4) Test Results Status: 200 OK Time: 5 ms Size: 181 B

Pretty Raw Preview Visualize JSON

```
1  {
2      "food": "pizza",
3      "user": "Francesco"
4  }
```

Figure 11: tenth test (adding a specific food to the foodlist of a specific guest)

Bedrock_a_party / stefano was not invited

POST http://127.0.0.1:5000/party/2/foodlist/Stefano/pizza

Save ... ✏ 💬

Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (4) Test Results

Status: 401 UNAUTHORIZED Time: 13 ms Size: 657 B Save Response ∨

Pretty Raw Preview Visualize JSON ∨

```
1  {
2      "code": 401,
3      "description": "The server could not verify that you are authorized to access the URL requested. You either
           supplied the wrong credentials (e.g. a bad password), or your browser doesn't understand how to supply the
           credentials required.",
4      "message": "401 Unauthorized: The server could not verify that you are authorized to access the URL requested. You
           either supplied the wrong credentials (e.g. a bad password), or your browser doesn't understand how to supply
           the credentials required."
5  }
```

Figure 12: eleventh test (adding a specific food to the foodlist of a non-invited guest)

Bedrock_a_party / what are we eating in that party?

Save ∨

GET http://127.0.0.1:5000/party/2/foodlist

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (4) Test Results

Status: 200 OK Time: 5 ms Size: 196 B

Pretty Raw Preview Visualize JSON ∨

```
1  {
2      "foodlist": [
3          {
4              "food": "pizza",
5              "user": "Francesco"
6          }
7      ]
8  }
```

Figure 13: twelfth test (retrieving the foodlist of a specific party)

Bedrock_a_party / **Francesco won't bring pizza anymore**

Save

DELETE   http://127.0.0.1:5000/party/2/foodlist/Francesco/pizza

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body   Cookies   Headers (4)   Test Results   Status: 200 OK   Time: 4 ms   Size: 169 B

Pretty   Raw   Preview   Visualize   JSON ∨

```
1  {
2      "msg": "Food deleted!"
3  }
```

Figure 14: thirteenth test (removing a specific food from the foodlist of a specific guest)