***Overview:

After making the first request I saw Jason format { }, and XML format as well because it has headers, x-forwarded-protocol "HTTP" and port is 80. The host's name is postman-echo.com and root=1-625498a8-7ba9b2bb0a7b9ftbe42316b0f. PostmanRuntime/7.29.0 and postman-taken: b0cb2af0-62c6-49d6-9328-d94301b74f62 and accept-encoding: gzip,deflate, br. The URL is http://postman-echo.com/get.

Response:

1. 401(Unauthorized)– 401 indicates that the client tried to operate on a protected resource and is unauthorized.
2. The list of the body is 1.
   200(OK)– It indicates that the API successfully carried out the client's request. It is a successful HTTP response status.
3. How many lists can you see in the response body? : No list
   What are the available property(Key) names in the response body? ID, Email, First name, last name, avatar, URL, Text

4. a) DELETE requested, responded with status "204 No Content"
   b) all data is still visible/ 12 Users
   c) NO ID WAS deleted.
5. a) GET requested for id 40, received a response as "404 Not Found" and body showed {}
   b) There was no property key.

6. a) Response code: 201 created.

   b) property key: 2 (Id, Createdat)

   c) Response Header Etag: W/"33-lPjVOwpwDk8s1GMbVj66EBSDHDc"

7. Response: "400 Bad Request" - Error- "missing password"

8. a) Response Header Etag: W/"1d-lGCrvD6B7Qzk11+2C98+nGhhuec"

   b) Response: "200 Ok" ; "token": "QpwL5tke4Pnpja7X4"

9. List in the response body: 21 lists; Response code: "200 OK"

10. Properties in the response body: "name","rotation_period", "orbital_period", "diameter", "climate", "gravity", "terrain", "surface_water", "population", "residents" "films", "created" "edited", "url".

11. List in response body: 21; "200 ok"

12. List in response body: 2; "200 ok"

13. List in response body: 31; b) list of all attribute and data types:

- String: 5

- Objects : 1

- Number(s): 2

- Null : 2

- Array/list : 31

14. List in response body: 21, included in 1 parent list.

15. Responded in body with 1 list and 67 arrays.

16.Response details about booking id 23 as below:

```
{
    "firstname": "\"Ida\"",
    "lastname": "\"Jensen\"",
    "totalprice": 788,
    "depositpaid": true,
    "bookingdates": {
        "checkin": "2022-04-26",
        "checkout": "2022-04-27"
    },
    "additionalneeds": "\"Breakfast\""
}
```

17. Response status was "200 OK" and in body data as below:
```
{
    "firstname": "Jim",
    "lastname": "Smith",
    "totalprice": 197,
    "depositpaid": false,
    "bookingdates": {
        "checkin": "2015-12-20",
        "checkout": "2017-11-15"
    },
    "additionalneeds": "Breakfast"
```

}

18. Response status was "200 OK".
    a) NO list

19. a)21 lists
    b)Status "200 OK"
20.   {
  "studio": {
    "movie": [
      {
        "category": "history",
        "director": "John",
        "title": "History",
        "rating": 6.60
      },
      {
        "category": "comedy",
        "director": "Paul",
        "title": "Laugh",
        "rating": 4.00
      },
      {
        "category": "fiction",
        "director": "Jack",
        "title": "Wake",
        "isbn": "87877676879",
        "rating": 8.01
      },
      {
        "category": "drama",
        "director": "Edward",

```
            "title": "Wuthering Heights",
            "isbn": "8754543578",
            "rating": 4.50
        }
    ],
    "music": {
        "song": "pale",
        "rate": 5.4
    }
  },
  "ranking": 20
}
```

a. To retrieve all direct properties of the studio

object : 3 "movie", "music" and "ranking"

b. To find out the music's song: go to "studio", then click on "music", then we will find the "song" which has value "pale"

Path: x.studio.music.song

C. To find the rating of all items in the studio:

Path: Index (0) x.studio.movie[0].rating

Path: Index (1) x.studio.movie[1].rating

Path: Index (2) x.studio.movie[2].rating

Path: Index (3) x.studio.movie[3].rating

d. To retrieve information on all movies

X.studio.movie[0]

X.studio.movie[1]

X.studio.movie[2]

x.studio.movie[3]

e. To find out the titles of all movies

X.studio.movie[0].title

X.studio.movie[1].title

X.studio.movie[2].title

x.studio.movie[3].title

f. To retrieve the titles of all movies by Jack

x.studio.movie[2].director

g. To retrieve the category of the last movie (title:Wuthering Heights) x.studio.movie[3]

i. To retrieve all movies that have the isbn property

X.studio.movie[2].isbn (for title: wake)

X.studio.movie[3].isbn (for title: Wuthering Heights)

21. a) Only 1 list

    b) Response Status Code "200 OK"

    c)available property keys : 5

    d)Data Types

Number   : "id": 1,

String   : "employee_name": "Tiger Nixon",

Number   : "employee_salary": 320800,

Number   : "employee_age": 61,

String   : "profile_image": ""

22. a) 5 Data

    b) esponse Status code: "200 OK

23. a) Response status: "200 OK"
      b) Yes, I can see the "id" property in the response.
         "id" value is "id": 5801

24. a)Response Status : 200 OK
{
   "status": "success",
   "data": "2",
   "message": "Successfully! Record has been deleted"
     }
    b) 24 employees
    c) Yes, data is still there.

25. a) Response Status Code: "400 Bad Request" with error message
in body
      b) available property(Key)
            {
              "error": "Note: Only defined users succeed registration"

            }
26. Response Status Code: "200 OK"

27. Response Status Code : "201 Created" with message in the body

"Created"

28. response Status Code: " 200 OK"
And the response was 3 seconds delayed.

29. a) Response was "detail": "Not found"
    b) Response Status Code: 404 Not Found

30. a) Error from the client end
    b) Response Status Code: 404 Not Found
    c) Available property(Key): "detail": "Not found"

31. Done in GitBash