Note: The 3 script files are used for analyzing file *interview_data_set*, getting necessary info, converting JSON format, uploading it into server URL.

File mac_assignment.sh tested with URL http://httpbin.org/post on macOS 10.15.7

File win_assignment.ps1 tested with URL http://httpbin.org/post on Windows 10

File py_assignment.py tested with URL http://httpbin.org/post on Windows 10 and macOS 10.15.7

Feel free to modify these 3 files if that is needed to meet the requirement.

Example output is below:

1. On Windows, run *powershell /path/to/win_assignment.ps1 /path/to/interview_data_set*Example:

2. On Windows, run *python /path/to/win_assignment.ps1 /path/to/interview_data_set* Example:

```
C:\Users\wadewei\Documents\assignment.python ./py_assignment.py ./interview_data_set
Upload event info of BBAOMACBOOKATR2 successfully!

{
    "description": "Could not find uid associated with service: 0: Undefined error: 0 501 Service exited with abnormal code: 78",
    "deviceName": "BBAOMACBOOKATR2",
    "nourlyTimeWindow: 0000-0100 numberOfOccurence: 17\nTimeWindow: 0100-0200 numberOfOccurence: 17\nTimeWindow: 0200-0300 numberOfOccurence:
    19\nTimeWindow: 0400-0400 numberOfOccurence: 15\nTimeWindow: 0500-0600 numberOfOccurence: 15\nTimeWindow: 0600-07
    00 numberOfOccurence: 15\nTimeWindow: 0700-0800 numberOfOccurence: 15\nTimeWindow: 0500-0600 numberOfOccurence: 15\nTimeWindow: 0700-0800 numberOfOccurence: 15\nTimeWindow: 1000-1200 numberOfOccurence: 17\nTimeWindow: 1000-1200 numberOfOccurence: 17\nTimeWindow
```

3. On macOS, run bash /path/to/mac_assignment.sh /path/to/interview_data_set Example:

```
Wadewei:assignment mac$ ./mac_assignment.sh interview_data_set
Upload event info of BBAOMACBOOKAIR2 successfully!
"json": {
   "Descritpion": "Could not find uid associated with service: 0: Undefined error: 0 501 Service exited with abnormal code: 78",
   "DeviceName": "BBAOMACBOOKAIR2",
   "HourlyTimeWindowEvents": "TimeWindow: 0000-0100 numberOfOccurrence: 17\nTimeWindow: 0100-0200 numberOfOccurrence: 19\nTimeWindow: 0300-0300 numberOfOccurrence: 19\nTimeWindow: 0300-0300 numberOfOccurrence: 15\nTimeWindow: 0400-0700 numberOfOccurrence: 15\nTimeWindow: 0400-0700 numberOfOccurrence: 15\nTimeWindow: 0400-0800 numberOfOccurrence: 15\nTimeWindow: 0500-0600 numberOfOccurrence: 15\nTimeWindow: 0500-0600 numberOfOccurrence: 15\nTimeWindow: 0500-0600 numberOfOccurrence: 15\nTimeWindow: 0500-0600 numberOfOccurrence: 15\nTimeWindow: 0500-1500 numberOfOccurrence: 15\nTimeWindow: 1000-1100 numberOfOccurrence: 15\nTimeWindow: 1000-1100 numberOfOccurrence: 15\nTimeWindow: 1000-1500 numberOfOccurrence: 15\nTimeWindow: 1500-1500 num
```

4. On macOS run *python /path/to/py_assignment.py /path/to/interview_data_set* (you may need to install *requests* module first)

Example

```
wadewel:assignment mac$ python3 ./py_assignment.py ./interview_data_set
Upload event info of BBAOMACBOOKAIR2 successfully!
{
    "description": "Service exited with abnormal code: 78 Could not find uid associated with service: 0: Undefined error: 0 501",
    "deviceName": "BBAOMACBOOKAIR2",
    "hourlyTimeWindowEvents": "TimeWindow: 0000-0100 numberOfOccurence: 17\nTimeWindow: 0100-0200 numberOfOccurence: 17\nTimeWindow: 0400-0500 numberOfOccurence: 15\nTimeWindow: 0400-0500 numberOfOccurence: 15\nTimeWindow: 0500-0600 numberOfOccurence: 15\nTimeWindow: 1000-1100 numberOfOccurence: 17\nTimeWindow: 1000-1100 numberOfOccurence: 15\nTimeWindow: 1000-1100 numberOfOccurence: 17\nTimeWindow: 1000-1100 numberOfOccurence: 17\nTimeWindow: 1000-1500 numberOfOccurence: 19\nTimeWindow: 1
```

Author: 魏小忠/Wade Wei Final modification on 2022-02-13