EXP NO:6 Import a JSON file from the command line. Apply the following actions with the data present in the JSON file where, projection, aggregation, remove, count, limit, skip and sort

AIM:

To import a JSON file from the command line and apply the following actions with the data present in the JSON file where, projection, aggregation, remove, count, limit, skip and sort using jq tool.

PROCEDURE:

- Create a json file 'employees.json' and provide data in it.
- Open the command prompt.
- Navigate to the folder where employees.json is stored.
- Load and view the JSON data with jq.
- Use the jq commands for projection, aggregation, removal, counting, limiting, and sorting operations.

employees.json:

```
[
  {
     "id": 1,
     "name": "Alice Johnson",
     "department": "Engineering",
     "age": 29,
     "salary": 70000
  },
     "id": 2,
     "name": "Bob Smith",
     "department": "Marketing",
     "age": 35,
     "salary": 55000
  },
  {
     "id": 3,
     "name": "Charlie Davis",
     "department": "Engineering",
```

```
"salary": 60000
   },
     "id": 4,
     "name": "Dana Lee",
     "department": "Human Resources",
     "age": 40,
     "salary": 65000
   },
     "id": 5,
     "name": "Eve Martinez",
     "department": "Finance",
     "age": 45,
     "salary": 75000
   }
]
OUTPUT:
Installation of jq packages:
Running jq queries:
  I.
        Projection:
      jq ".[] | {name: .name, salary: .salary}" Desktop/employees.json
        Aggregation:
  II.
      jq "[.[] | .salary] | add" Desktop/employees.json
III.
```

"age": 25,

Remove:

jq "del(.[] | .age)" Desktop/employees.json

IV. Count:

jq ". | length" Desktop/employees.json

V. Limit:

jq ".[0:3]" Desktop/employees.json

VI. Skip:

jq ".[2:]" Desktop/employees.json

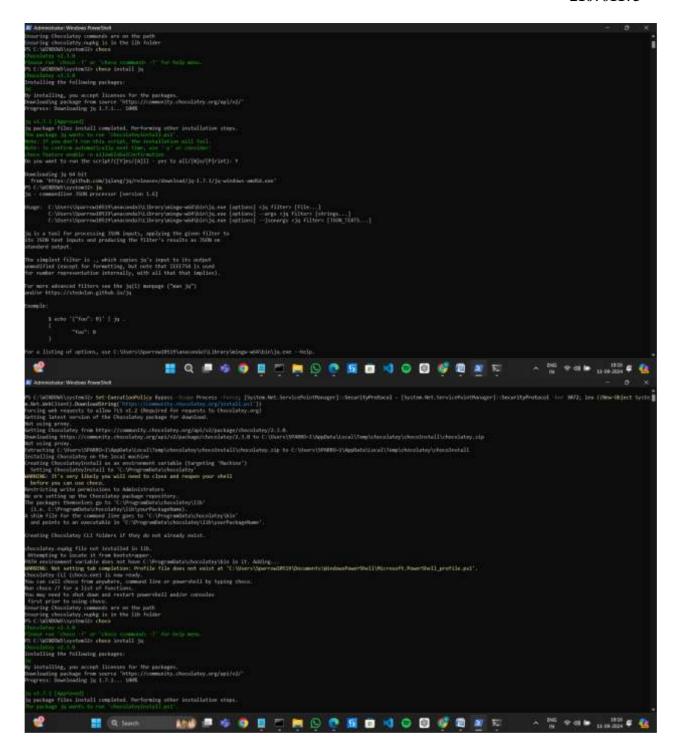
VII. Sort:

jq "sort_by(.age)" Desktop/employees.json

OUTPUT SCREENSHOTS:

```
\Users\Sparrow16519>jq ".[2:]" C:\Users\Sparrow16519\Documents\employees.json
   "id": 3,
"name": "Charlie Davis",
"department": "Engineering",
*age": 25,
"salary": 60000
    "id": 4,
"mame": "Dana Lee",
"department": "Human Resources",
"age": 48,
"salary": 65000
   "id": 5,
"name": "Eve Martinez",
"department": "Finance",
"age": 45,
"salary": 75990
 \Users\Sparrow16519>jq "sort_by(.age)" C:\Users\Sparrow16519\Documents\employees.json
   "ig": 3,
"name": "Charlie Davis",
"department": "Engineering",
"age": 25,
"salary": 60000
   "id": 1,
"name": "Alice Johnson",
"department": "Engineering",
"age": 29,
"salary": 70000
*
                                             \Users\Sparrow10519>jq ".[0:3]" C:\Users\Sparrow10519\Documents\employees.json
   "id": 1,
"name": "Alice Johnson",
"department": "Engineering",
'age": 29,
"malary": 70000
   "id": 2,
"name": "Bob Smith",
"department": "Marketing",
"age": 35,
"salary": 55600
   "id": 3,
"name": "Charlie Davis",
"department": "Engineering",
"age": 25,
"salary": 60000
 \Users\Sparrow18519>jq ".[2:]" C:\Users\Sparrow18519\Documents\employees.json
   'id": 3,
'name": "Charlie Davis",
'department': "Engineering",
'age": 26
   "id": U,
"name": "Dana Lee",
"department": "Numan Resources",
"age": UB,
"salary": 05000
```

```
\Users\Sparrow10519>jq "del(.[] | .age)".C:\Users\Sparrow10519\Documents\employees.json
          "id": 1,
"mame": "Alice Johnson",
"department": "Engineering",
"salary": 78888
          "sd": 2,
"name": "Bob Smith",
"department": "Marketing",
"salary": 55000
           "id": 3,
"name": "Charlie Davis",
"department": "Engineering",
"salary": 60000
          "id": 4,
"name": "Dana Lee",
"department": "Human Resources",
"salary": 65000
         "id": 5,
"mase": "Eve Martinez",
"department": "Finance",
"salary": 75800
C:\Users\Sparrow16519>jq ". | length" C:\Users\Sparrow18519\Documents\employees.json
    \Wsers\Sparrow10519>jq ".[0:3]" C:\Wsers\Sparrow10519\Documents\employees.json
 *
                                                                                                    Microsoft Windows [Version 18.8.22631.4169]
(c) Microsoft Corporation, All rights reserved
   :\Users\Sparrow18519>jg " [] | [name: name, salary: .salary]* C:\Users\Sparrow18519\Documents\employees.json
     "name": "Alice Johnson",
"salary": 79000
     "mame": "Bob Swith",
"salary": 55000
     "mame": "Charlie Davis",
"salary": 60000
     "name": "Dena Lee",
"salazy": 65000
     "mame": "Eve Martinez",
"salary": 75000
   \Users\Sparrow18519>jq "[.[] | .salary| | add" C:\Users\Sparrow18519\Documents\employees.json
    \Users\Sparrow10519>jq "del(.[] | .age)" C:\Users\Sparrow10519\Documents\employees.json
         "id": 1,
"namm": "Alice Johnson",
"department": "Engineering",
"salary": 70000
          "id": 2,
"name": "Bob Smith",
"department": "Marketing",
"salary": 55000
                                                                                                    ## Q ## $ $ ## # 100 C ## 100
```



RESULT:

Thus to import a JSON file from the command line and apply the following actions with the data present in the JSON file where, projection, aggregation, remove, count, limit, skip and sort using jq tool is completed successfully.