```
qus1 :
 "students": [
     "id": 101,
     "name": "Sarah Johnson",
     "courses": ["CS101", "MATH200", "ENG150"],
     "gpa": 3.85,
     "active": true,
     "graduation date": null
    "id": 102,
     "name": "Alex Chen",
     "courses": ["CS101", "CS102", "STAT101"],
     "gpa": 3.92,
     "active": true,
     "advisor": null,
     "notes": "Excellent student with strong
analytical skills"
   },
     "id": 103,
     "name": "Maria Rodriguez",
     "courses": [],
     "gpa": 3.67,
     "active": false,
     "special programs": ["honors", "research"]
 "last updated": "2024-09-15T10:30:00Z",
 "total students": 3
qus2:
```

```
[server]
host = "0.0.0.0"
port = 8080
debug = false
max connections = 1000
[database]
url = "postgresql://localhost:5432/myapp"
pool size = 20
timeout = 30
[logging]
level = "info"
file = "/var/log/myapp.log"
max size = "100MB"
rotate = true
[[feature flags]]
name = "new ui"
enabled = true
rollout percentage = 25
[[feature flags]]
name = "analytics"
enabled = false
rollout percentage = 0
[cache]
redis url = "redis://localhost:6379/0"
tt1 = 3600
a. How many feature flags are currently defined, and
which ones are active?
ans : There are two feature flags defined: "new ui"
and "analytics". The "new ui" feature flag is
active.
b. What happens when the log file reaches 100MB?
ans : When the log file reaches 100MB, it will be
rotated, meaning a new log file will be created and
the old one will be archived.
```

- c. If you wanted to make the server accessible only from localhost, what should you change? ans: To make the server accessible only from localhost, we should change the host value in the server from '0.0.0.0' to "127.0.0.1" or "localhost".
- d. Calculate the total number of seconds that cached items will remain valid.
- ans : Cached items will remain valid for 3600 seconds.
- e. Explain the difference between the [feature_flags] syntax. [feature_flags] syntax. ans : The [feature_flags] syntax is used to define a single table, while the [[feature_flags]] syntax is used to define an array of tables, allowing for multiple entries with the same structure.

Que3:

Repo link:

https://github.com/VaibhavHelambe/mlops2025w_142502015/tree/main/assignment/Assignment3

Result link:

https://github.com/VaibhavHelambe/mlops2025w_142502015/tree/main/assignment/Assignment3/Result