```
Mlops Assignment 3
Q1)
{
  "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 \nskills"
    },
       "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
}
```

In the json script i have kept the id of the third student as 103 (int datatype) as "103" is also acceptable but i thought it might be best to keep all the key value datatype as same

## Q2) Analyze the configuration and answer the following questions:

a. How many feature flags are currently defined, and which ones are active? There are two feature flags defined as "new\_ui" and "analytics". In these one is active Which is "new\_ui"

## b. What happens when the log file reaches 100MB?

When the log file reaches 100MB it will rotate. This process typically involves renaming the current file (e.g., to myapp.log.1) and creating a new, empty myapp.log file to continue logging.

## c. If you wanted to make the server accessible only from localhost, what should you change?

In the server table i will host address from "0.0.0.0" to either "localhost" or "127.0.0.1"

- d. Calculate the total number of seconds that cached items will remain valid. cached items will remain valid for 3600 seconds
- e. Explain the difference between the [feature\_flags] and [[feature\_flags]] syntax.

This is the key difference between [feature\_flags] and [[feature\_flags]] is

- **[feature\_flags]:** Defines a unique table or object. You can only have **one** table with that specific name in the configuration. For example, there is only one **[feature\_flags]** configuration.
- [[feature\_flags]]: Defines an element in an array (a list) of tables. Every time you use this syntax with the same name, you add a new object to that list. This is why you can have multiple [[feature\_flags]] sections.