Question 1

Mistakes :

- Missing comma after "id" : 102 in student
- Missing comma in courses array in student object after "CS101"
- "active":True is incorrect it should be "active":true, because it should be lower case
- "advisor":undefined is incorrect because json don't support it it should be null
- Missing comma between objects in student with ids 102 and 103
- Last key value pair have a comma after it with object with id 103 which is not allowed
- Missing comma between last updated and total students

Corrected Json code

```
{
  "students": [
    {
      "id": 101,
      "name": "Sarah Johnson",
      "courses": ["CS101", "MATH200", "ENG150"],
      "gpa": 3.85,
      "active": true,z
      "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

}
```

Question 2

a) Identifying feature flags
   There are two feature flags new_ui and analytics
   Only new_ui is enabled and analytics is disabled
b) Here after 100mb limit is reached the log file gets archived and a fresh new log file is created for maintaining logs
c) Here if we want to change the acceability so that only local host can access the files then we have to change the host section
   In [server]
   host = "0.0.0.0"
   We will change the host to "127.0.0.1" because it is standard ip address for local host whereas 0.0.0.0 accepts requests from all ip addresses
d) Here in [cache]
   ttl = 3600
   ttl stands for time to live
   this time is in seconds so the answer is 3600 seconds or 1 hour
e) Here
   [feature_flags] means a object and each key value pair is a entry
   [[feature_flags]] means a array of object and each key value pair is an entry to an object and every time we mention something below [[feature_flags]] it is added to the array of objects that we made

Question 3 is in the same zip folder