## vansh bhelekar AIDS 06

```
import re
def extract_critical_errors(log_data: str) -> list[tuple]:
    pattern = r' ((d_4)-d_2)-d_2 (d_2):d_2)() (ERROR)
[([\w]+)\] (.*?(?:\d{1,3}\.){3}\d{1,3}.*?0x[0-9A-Fa-f]{8}.*)'
   matches = re.findall(pattern, log data)
    return matches
def get user input():
   print("Enter log entries line by line (type 'END' to stop):")
   logs = []
   while True:
        log entry = input()
        if log entry.strip().upper() == "END":
        logs.append(log entry)
   log data = "\n".join(logs)
   print("\nInputs:")
   for log in logs:
        print(log)
    result = extract critical errors(log data)
   print("\nOutput:")
   if result:
        for item in result:
            print(item)
   else:
        print("No critical errors found.")
get user input()
Enter log entries line by line (type 'END' to stop):
[2025-02-10 14:23:01] [INFO] [Auth Module] User login successful.
[2025-02-10 15:45:32] [ERROR] [Net Module] Connection timeout from
192.168.1.10. Error Code: 0xAB12CD34
[2025-02-10 16:01:10] [WARN] [Disk Module] Low disk space warning.
[2025-02-10 17:12:05] [ERROR] [Security Module] Unauthorized access
detected from 10.0.0.5. Error Code: 0xDEADBEEF
END
Inputs:
```

[2025-02-10 14:23:01] [INFO] [Auth\_Module] User login successful. [2025-02-10 15:45:32] [ERROR] [Net\_Module] Connection timeout from 192.168.1.10. Error Code: 0xAB12CD34 [2025-02-10 16:01:10] [WARN] [Disk\_Module] Low disk space warning. [2025-02-10 17:12:05] [ERROR] [Security\_Module] Unauthorized access detected from 10.0.0.5. Error Code: 0xDEADBEEF

('2025-02-10 15:45:32', 'Net\_Module', 'Connection timeout from 192.168.1.10. Error Code: 0xAB12CD34') ('2025-02-10 17:12:05', 'Security\_Module', 'Unauthorized access detected from 10.0.0.5. Error Code: 0xDEADBEEF')