# Q3 PYTHON ABDUL SAMIM

Make directory devops-commontrack-mocktest inside it question 2 and put timestamp in tmp/timestamp.log

```
master@master-vm:~/Desktop$ mkdir -p devops-commontrack-mocktest/question2 && \
> tee /tmp/timestamp.log > /dev/null << 'EOF'
> 2025-04-04 22:01:15,123 - INFO - Application started successfully.
> 2025-04-04 22:01:15,567 - DEBUG - Initializing database connection.
> 2025-04-04 22:01:16,234 - INFO - User 'Alice' logged in.
> 2025-04-04 22:01:17,890 - ERROR - Failed to connect to external service. Retrying in 5 seconds. Error: Connection refused.
> 2025-04-04 22:01:22,956 - WARNING - High CPU usage detected: 95%.
> 2025-04-04 22:01:25,345 - ERROR - Database query failed. Error: Table 'users' not found.
> 2025-04-04 22:01:28,789 - INFO - User 'Bob' logged in.
> 2025-04-04 22:01:31,456 - DEBUG - Processing request for resource '/data'.
> 2025-04-04 22:01:33,012 - ERROR - File not found. Path: /tmp/important_file.txt.
> 2025-04-04 22:01:36,543 - INFO - Application shutting down.
> 2025-04-04 22:01:37,098 - WARNING - Unsaved data might be lost.
> 2025-04-04 22:01:38,675 - ERROR - Exception during shutdown. Error: 'NoneType' object has no attribute 'close'.
> EOF
```

Put extract_errors.py inside question2

```
master@master-vm:~/Desktop$ tee devops-commontrack-mocktest/question2/extract_errors.py > /dev/null << 'EOF'
> import json
> with open('/tmp/timestamp.log') as f:
>     lines = f.readlines()
> errors = []
> for line in lines:
>     if ' - ERROR - ' in line:
>         timestamp, message = line.split(' - ERROR - ')
>         errors.append({'timestamp': timestamp.strip(), 'error': message.strip()})
> with open('question2/errors.json', 'w') as f:
>     json.dump(errors, f, indent=2)
> EOF
```

Run the file

```
master@master-vm:~/Desktop$ python3 devops-commontrack-mocktest/question2/extract_errors.py
```

Errors.json will be generated

```
master@master-vm:~/Desktop/devops-commontrack-mocktest/question2$ ls
errors.json   extract_errors.py
```

```
  GNU nano 4.8                                        errors.json
[
  {
    "timestamp": "2025-04-04 22:01:17,890",
    "error": "Failed to connect to external service. Retrying in 5 seconds. Error: Connection refused."
  },
  {
    "timestamp": "2025-04-04 22:01:25,345",
    "error": "Database query failed. Error: Table 'users' not found."
  },
  {
    "timestamp": "2025-04-04 22:01:33,012",
    "error": "File not found. Path: /tmp/important_file.txt."
  },
  {
    "timestamp": "2025-04-04 22:01:38,675",
    "error": "Exception during shutdown. Error: 'NoneType' object has no attribute 'close'."
  }
]
```

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Upload the files on github