<u>Lab_10 --> PART-C :</u>

1. Create a capped collection named" logs" with a maximum size of 100 KB and a maximum of 10 documents.

```
→ db.createCollection("logs", { capped: true, size: 102400, max: 10 })
```

2. Insert below 12 log entries into the "logs" collection. Each entry should contain a message, level (e.g., "info", "warning", "error"), and a timestamp field. Use the insertMany() method.

```
{ message: "System started", level: "info", timestamp: new Date() }
{ message: "Disk space low", level: "warning", timestamp: new Date() }
{ message: "User login", level: "info", timestamp: new Date() }
{ message: "System reboot", level: "info", timestamp: new Date() }
{ message: "Error in module", level: "error", timestamp: new Date() }
{ message: "Memory usage high", level: "warning", timestamp: new Date() }
{ message: "User logout", level: "info", timestamp: new Date() }
{ message: "File uploaded", level: "info", timestamp: new Date() }
{ message: "Network error", level: "error", timestamp: new Date() }
{ message: "Backup completed", level: "info", timestamp: new Date() }
{ message: "Database error", level: "error", timestamp: new Date() }
{ message: "Service started", level: "info", timestamp: new Date() }
→ db.logs.insertMany([
 { message: "System started", level: "info", timestamp: new Date() },
 { message: "Disk space low", level: "warning", timestamp: new Date() },
 { message: "User login", level: "info", timestamp: new Date() },
 { message: "System reboot", level: "info", timestamp: new Date() },
 { message: "Error in module", level: "error", timestamp: new Date() },
 { message: "Memory usage high", level: "warning", timestamp: new Date() },
 { message: "User logout", level: "info", timestamp: new Date() },
 { message: "File uploaded", level: "info", timestamp: new Date() },
 { message: "Network error", level: "error", timestamp: new Date() },
 { message: "Backup completed", level: "info", timestamp: new Date() },
 { message: "Database error", level: "error", timestamp: new Date() },
 { message: "Service started", level: "info", timestamp: new Date() } ] )
```

- 3. Perform find method on "logs" collection to ensure only the last 10 documents are retained (even though you inserted 12).
- → db.logs.find()
- → db.logs.find().pretty()
- 4. Insert below 5 more documents and check if the oldest ones are automatically removed.