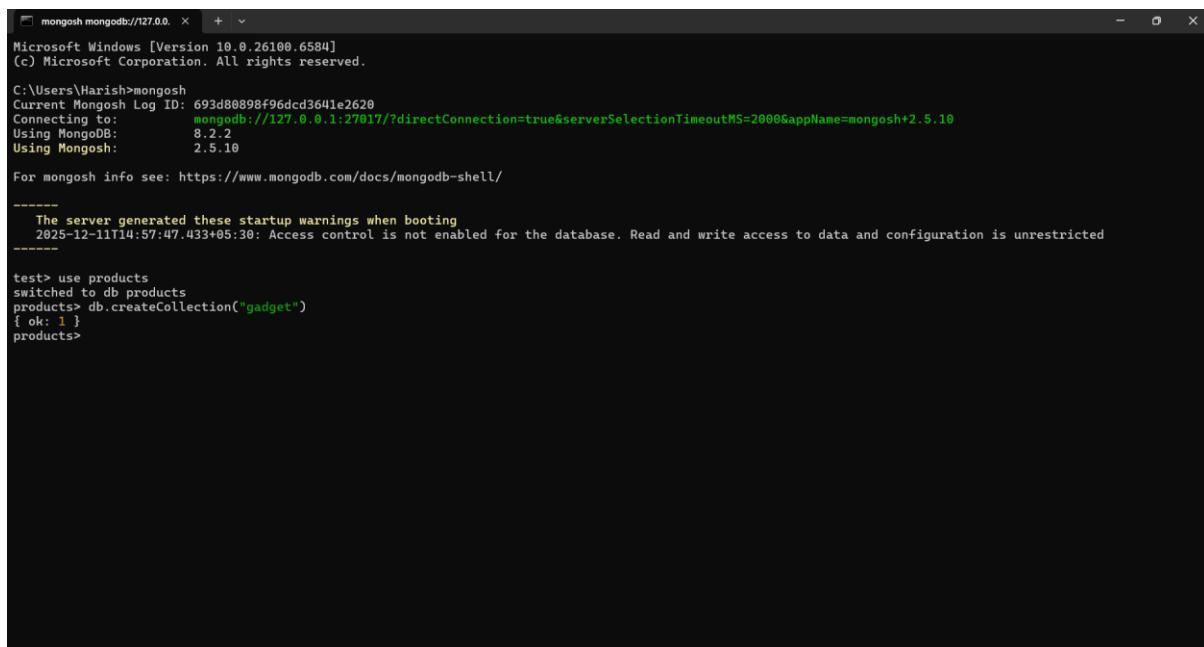


MongoDB Basic Practice Task

1.Database & Collection Setup

- i. Database created : products
- ii. Collection created : gadget



```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.10
Microsoft Windows [Version 10.0.26100.6584]
(c) Microsoft Corporation. All rights reserved.

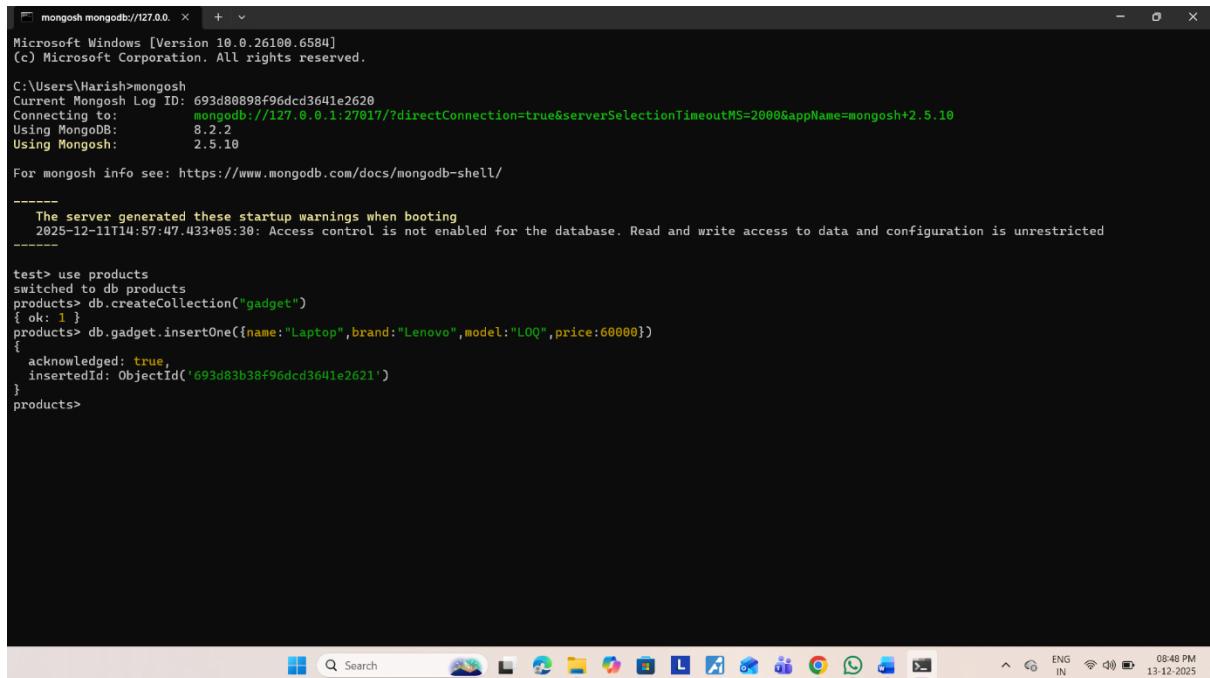
C:\Users\Harish>mongosh
Current Mongosh Log ID: 693d80898f96dc3641e2620
Connecting to:      mongodb://127.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.10
Using MongoDB:     8.2.2
Using Mongosh:    2.5.10
For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/
-----
The server generated these startup warnings when booting
2025-12-11T14:57:47.433+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----
test> use products
switched to db products
products> db.createCollection("gadget")
{ ok: 1 }
products>
```

2.Insert Operations

i. Insert one document

Inserted one document :

Laptop, Lenovo, LOQ, 60000



A screenshot of a Windows desktop environment. In the center is a terminal window titled "mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.10". The terminal displays the following command-line session:

```
C:\Users\Harish>mongosh
Current Mongosh Log ID: 693d88898f96dc3641e2620
Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.10
Using MongoDB: 8.2.2
Using Mongosh: 2.5.10

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

-----
The server generated these startup warnings when booting
2025-12-11T14:57:47.433+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> use products
switched to db products
products> db.createCollection("gadget")
{ ok: 1 }
products> db.gadget.insertOne({name:"Laptop",brand:"Lenovo",model:"LOQ",price:60000})
{
  acknowledged: true,
  insertedId: ObjectId('693d83b38f96dc3641e2621')
}
products>
```

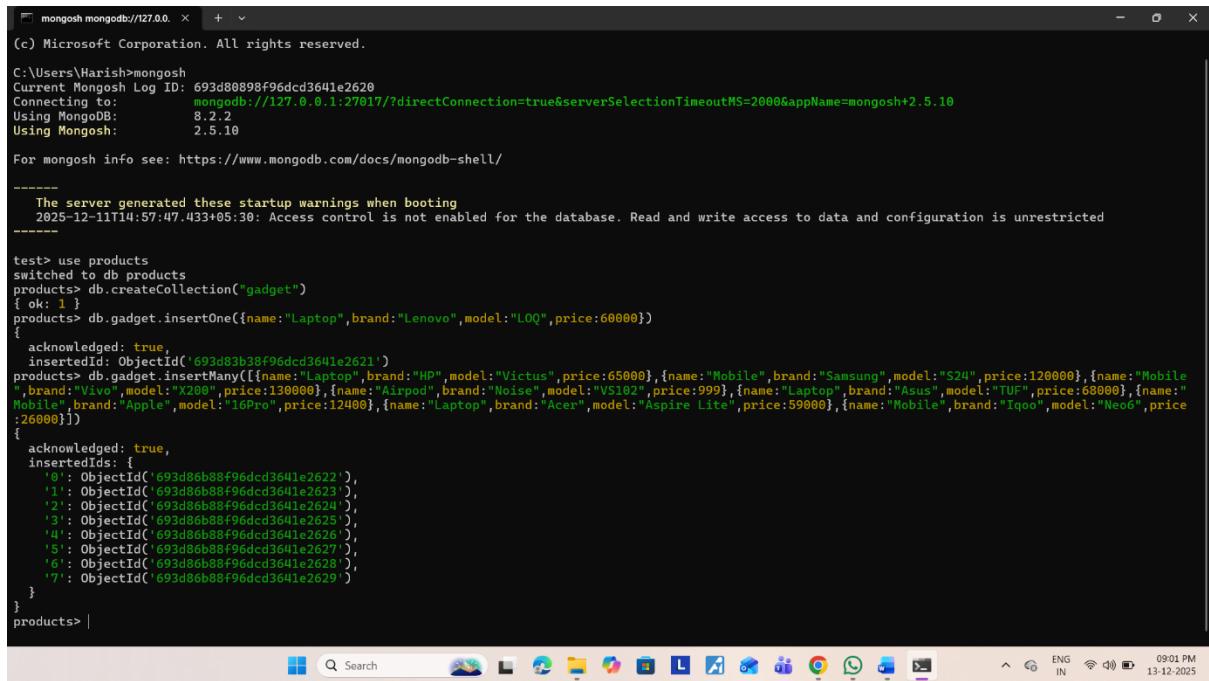
The taskbar at the bottom shows various pinned icons and the system tray indicates the date and time as 13-12-2025 and 08:48 PM.

ii. Insert Multiple documents

Inserted many documents :

Multiple Products were added with name, brand, model, and price

HP Laptop, Samsung Mobile, Vivo Mobile, Noise Airpod, Asus Laptop, Apple Mobile, Acer Laptop, Iqoo Mobile.



```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.10
Current MongoDB Log ID: 693d88898f96dc3d3641e2620
Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.10
Using MongoDB: 8.2.2
Using Mongosh: 2.5.10

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

-----
The server generated these startup warnings when booting
2023-12-11T14:57:47.433+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> use products
switched to db products
products> db.createCollection("gadget")
{ ok: 1 }
products> db.gadget.insertOne({name:"Laptop",brand:"Lenovo",model:"L0Q",price:60000})
{
  acknowledged: true,
  insertedId: ObjectId('693d83b38f96dc3d3641e2621')
}
products> db.gadget.insertMany([{name:"Laptop",brand:"HP",model:"Victus",price:65000},{name:"Mobile",brand:"Samsung",model:"S24",price:120000},{name:"Mobile",brand:"Vivo",model:"X200",price:130000},{name:"Airpod",brand:"Noise",model:"VS102",price:999},{name:"Laptop",brand:"Asus",model:"TUF",price:68000},{name:"Mobile",brand:"Apple",model:"16Pro",price:12400},{name:"Laptop",brand:"Acer",model:"Aspire Lite",price:59000},{name:"Mobile",brand:"Iqoo",model:"Neo6",price:26000}])
{
  acknowledged: true,
  insertedIds: [
    '0': ObjectId('693d86b88f96dc3d3641e2622'),
    '1': ObjectId('693d86b88f96dc3d3641e2623'),
    '2': ObjectId('693d86b88f96dc3d3641e2624'),
    '3': ObjectId('693d86b88f96dc3d3641e2625'),
    '4': ObjectId('693d86b88f96dc3d3641e2626'),
    '5': ObjectId('693d86b88f96dc3d3641e2627'),
    '6': ObjectId('693d86b88f96dc3d3641e2628'),
    '7': ObjectId('693d86b88f96dc3d3641e2629')
  ]
}
products> |
```

3. Read Operations

i. Fetch all Documents

```
mongosh mongodb://127.0.0.1:27017/test > + ^
acknowledged: true,
insertedIds: [
  '0': ObjectId('693d86b88f96dc3d3641e2622'),
  '1': ObjectId('693d86b88f96dc3d3641e2623'),
  '2': ObjectId('693d86b88f96dc3d3641e2624'),
  '3': ObjectId('693d86b88f96dc3d3641e2625'),
  '4': ObjectId('693d86b88f96dc3d3641e2626'),
  '5': ObjectId('693d86b88f96dc3d3641e2627'),
  '6': ObjectId('693d86b88f96dc3d3641e2628'),
  '7': ObjectId('693d86b88f96dc3d3641e2629')
]
products> db.gadget.find()
[
  {
    _id: ObjectId('693d83b38f96dc3d3641e2621'),
    name: 'Laptop',
    brand: 'Lenovo',
    model: 'LOQ',
    price: 60000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2622'),
    name: 'Laptop',
    brand: 'HP',
    model: 'Victus',
    price: 65000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2623'),
    name: 'Mobile',
    brand: 'Samsung',
    model: 'S24',
    price: 120000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2624'),
    name: 'Mobile',
    brand: 'Vivo',
    model: 'X200',
    price: 130000
  }
]
```

```
mongosh mongodb://127.0.0.1:27017/test > + ^
brand: 'Vivo',
model: 'X200',
price: 130000
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2625'),
  name: 'Airpod',
  brand: 'Noise',
  model: 'VS102',
  price: 999
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2626'),
  name: 'Laptop',
  brand: 'Asus',
  model: 'TUF',
  price: 68000
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2627'),
  name: 'Mobile',
  brand: 'Apple',
  model: '16Pro',
  price: 12400
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2628'),
  name: 'Laptop',
  brand: 'Acer',
  model: 'Aspire Lite',
  price: 59000
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2629'),
  name: 'Mobile',
  brand: 'Inoo',
  model: 'Neo6',
  price: 26000
}
]
products>
```

ii. Fetch Specific Data

Filtered specific data using product name “Laptop”

```
| mongosh mongodb://127.0.0.1:27017 | + - x
{
  "_id": ObjectId("693d86b88f96dc3d3641e2629"),
  "name": "Mobile",
  "brand": "Iqoo",
  "model": "Neo6",
  "price": 26000
}
products> db.gadget.find({name:"Laptop"})
[
  {
    "_id": ObjectId("693d83b38f96dc3d3641e2621"),
    "name": "Laptop",
    "brand": "Lenovo",
    "model": "LOQ",
    "price": 60000
  },
  {
    "_id": ObjectId("693d86b88f96dc3d3641e2622"),
    "name": "Laptop",
    "brand": "HP",
    "model": "Victus",
    "price": 65000
  },
  {
    "_id": ObjectId("693d86b88f96dc3d3641e2626"),
    "name": "Laptop",
    "brand": "Asus",
    "model": "TUF",
    "price": 68000
  },
  {
    "_id": ObjectId("693d86b88f96dc3d3641e2628"),
    "name": "Laptop",
    "brand": "Acer",
    "model": "Aspire Lite",
    "price": 59000
  }
]
products>
```

Filtered specific data using products price “26000”

```
| mongosh mongodb://127.0.0.1:27017 | + - x
[
  {
    "_id": ObjectId("693d83b38f96dc3d3641e2621"),
    "name": "Laptop",
    "brand": "Lenovo",
    "model": "LOQ",
    "price": 60000
  },
  {
    "_id": ObjectId("693d86b88f96dc3d3641e2622"),
    "name": "Laptop",
    "brand": "HP",
    "model": "Victus",
    "price": 65000
  },
  {
    "_id": ObjectId("693d86b88f96dc3d3641e2626"),
    "name": "Laptop",
    "brand": "Asus",
    "model": "TUF",
    "price": 68000
  },
  {
    "_id": ObjectId("693d86b88f96dc3d3641e2628"),
    "name": "Laptop",
    "brand": "Acer",
    "model": "Aspire Lite",
    "price": 59000
  }
]
products> db.gadget.find({price:26000})
[
  {
    "_id": ObjectId("693d86b88f96dc3d3641e2629"),
    "name": "Mobile",
    "brand": "Iqoo",
    "model": "Neo6",
    "price": 26000
  }
]
products>
```

4.Update Operations

i. Update single document

Updated offer to the Asus product “Free 3 Month Game Pass”

```
mongosh mongodb://127.0.0.1:27017
products> db.gadget.find({price:26000})
[
  {
    _id: ObjectId('693d86b88f96dc3d3641e2629'),
    name: 'Mobile',
    brand: 'Iqoo',
    model: 'Neo6',
    price: 26000
  }
]
products> db.gadget.updateOne({name:"Asus"},{$set: {Offer:"Free 3 Month Xbox Game Pass"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
products> db.gadget.updateOne({brand:"Asus"},{$set: {Offer:"Free 3 Month Xbox Game Pass"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
products> db.gadget.find()
[
  {
    _id: ObjectId('693d83b38f96dc3d3641e2621'),
    name: 'Laptop',
    brand: 'Lenovo',
    model: 'LOO',
    price: 60000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2622'),
    name: 'Laptop',
    brand: 'HP',
    model: 'ZBook',
    price: 120000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2623'),
    name: 'Laptop',
    brand: 'Dell',
    model: 'XPS',
    price: 140000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2624'),
    name: 'Laptop',
    brand: 'Acer',
    model: 'Predator',
    price: 160000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2625'),
    name: 'Airpod',
    brand: 'Noise',
    model: 'VS102',
    price: 999
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2626'),
    name: 'Laptop',
    brand: 'Asus',
    model: 'TUF',
    price: 68000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2627'),
    name: 'Mobile',
    brand: 'Apple',
    model: '16Pro',
    price: 12400
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2628'),
    name: 'Laptop',
    brand: 'Acer',
    model: 'Aspire Lite',
    price: 59000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2629'),
    name: 'Mobile',
    brand: 'Iqoo',
    model: 'Neo6',
    price: 26000
  }
]
```

```
mongosh mongodb://127.0.0.1:27017
products> db.gadget.find()
[
  {
    _id: ObjectId('693d86b88f96dc3d3641e2621'),
    name: 'Laptop',
    brand: 'Lenovo',
    model: 'LOO',
    price: 60000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2622'),
    name: 'Laptop',
    brand: 'HP',
    model: 'ZBook',
    price: 120000
  },
  {
    _id: ObjectId('693d83b38f96dc3d3641e2623'),
    name: 'Laptop',
    brand: 'Dell',
    model: 'XPS',
    price: 140000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2624'),
    name: 'Laptop',
    brand: 'Acer',
    model: 'Predator',
    price: 160000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2625'),
    name: 'Airpod',
    brand: 'Noise',
    model: 'VS102',
    price: 999
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2626'),
    name: 'Laptop',
    brand: 'Asus',
    model: 'TUF',
    price: 68000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2627'),
    name: 'Mobile',
    brand: 'Apple',
    model: '16Pro',
    price: 12400
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2628'),
    name: 'Laptop',
    brand: 'Acer',
    model: 'Aspire Lite',
    price: 59000
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2629'),
    name: 'Mobile',
    brand: 'Iqoo',
    model: 'Neo6',
    price: 26000
  }
]
```

ii. Update multiple document

Updated all document “Free Boat Earphone”

```
mongosh mongodb://127.0.0.1:27017/test
Offer: 'Free 3 Month Xbox Game Pass'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2627'),
  name: 'Mobile',
  brand: 'Apple',
  model: '16Pro',
  price: 12400
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2628'),
  name: 'Laptop',
  brand: 'Acer',
  model: 'Aspire Lite',
  price: 59000
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2629'),
  name: 'Mobile',
  brand: 'Iqoo',
  model: 'Neo6',
  price: 26900
}
]
products> db.gadget.updateMany({free:"Free Boat Earphone"})
Uncaught:
SyntaxError: Unexpected token, expected "," (1:23)
> 1 | db.gadget.updateMany({$set:{free:"Free Boat Earphone"}})
2 |
products> db.gadget.updateMany({,$set:{free:"Free Boat Earphone"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 9,
  modifiedCount: 9,
  upsertedCount: 0
}
products>
```

```
mongosh mongodb://127.0.0.1:27017/test
{
  matchedCount: 9,
  modifiedCount: 9,
  upsertedCount: 0
}
products> db.gadget.find()
[
  {
    _id: ObjectId('693d83b38f96dc3d3641e2621'),
    name: 'Laptop',
    brand: 'Lenovo',
    model: 'LOQ',
    price: 60000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2622'),
    name: 'Laptop',
    brand: 'HP',
    model: 'Victus',
    price: 65000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2623'),
    name: 'Mobile',
    brand: 'Samsung',
    model: 'S24',
    price: 129000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2624'),
    name: 'Mobile',
    brand: 'Vivo',
    model: 'X200',
    price: 130000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2625'),
    name: 'Airpod',
    brand: null,
    model: null,
    price: null
  }
]
```

```
mongosh mongodb://127.0.0.1:27017 -+ v
{
  name: 'Airpod',
  brand: 'Noise',
  model: 'VS102',
  price: 999,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3641e2626'),
  name: 'Laptop',
  brand: 'Asus',
  model: 'TUF',
  price: 69999,
  Offer: 'Free 3 Month Xbox Game Pass',
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3641e2627'),
  name: 'Mobile',
  brand: 'Apple',
  model: '16Pro',
  price: 124999,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3641e2628'),
  name: 'Laptop',
  brand: 'Acer',
  model: 'Aspire Lite',
  price: 59999,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3641e2629'),
  name: 'Mobile',
  brand: 'Iqoo',
  model: 'Neo6',
  price: 26999,
  free: 'Free Boat Earphone'
}
]
products> |
```



^ ⌂ ENG IN 09:31 PM
13-12-2025

5. Delete Operations

i. Delete One document

Deleted Acer product

```
mongosh mongodb://127.0.0.1:27017
{
  model: 'VS102',
  price: 999,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2626'),
  name: 'Laptop',
  brand: 'Asus',
  model: 'TUF',
  price: 68900,
  Offer: 'Free 3 Month Xbox Game Pass',
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2627'),
  name: 'Mobile',
  brand: 'Apple',
  model: '16Pro',
  price: 12400,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2628'),
  name: 'Laptop',
  brand: 'Acer',
  model: 'Aspire Lite',
  price: 59000,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2629'),
  name: 'Mobile',
  brand: 'Iqoo',
  model: 'Neo6',
  price: 26000,
  free: 'Free Boat Earphone'
}
]
products> db.gadget.deleteOne({brand:"Acer"})
{ acknowledged: true, deletedCount: 1 }
products>
```

```
mongosh mongodb://127.0.0.1:27017
{
  _id: ObjectId('693d86b88f96dc3d3641e2629'),
  name: 'Mobile',
  brand: 'Iqoo',
  model: 'Neo6',
  price: 26000,
  free: 'Free Boat Earphone'
}
products> db.gadget.deleteOne({brand:"Acer"})
{ acknowledged: true, deletedCount: 1 }
products> db.gadget.find()
[
  {
    _id: ObjectId('693d83b38f96dc3d3641e2621'),
    name: 'Laptop',
    brand: 'Lenovo',
    model: 'L00',
    price: 60000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2622'),
    name: 'Laptop',
    brand: 'HP',
    model: 'Victus',
    price: 65000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2623'),
    name: 'Mobile',
    brand: 'Samsung',
    model: 'S24',
    price: 120000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2624'),
    name: 'Mobile',
    brand: 'Vivo',
    model: 'X200',
    free: 'Free Boat Earphone'
  }
]
```

```
mongosh mongodb://127.0.0.1:27017 - + -
```

```
name: 'Mobile',
brand: 'Vivo',
model: 'X200',
price: 139999,
free: 'Free Boat Earphone'
},
{
_id: ObjectId('693d86b88f96dc3641e2625'),
name: 'Airpod',
brand: 'Noise',
model: 'VS102',
price: 999,
free: 'Free Boat Earphone'
},
{
_id: ObjectId('693d86b88f96dc3641e2626'),
name: 'Laptop',
brand: 'Asus',
model: 'TUF',
price: 69999,
Offer: 'Free 3 Month Xbox Game Pass',
free: 'Free Boat Earphone'
},
{
_id: ObjectId('693d86b88f96dc3641e2627'),
name: 'Mobile',
brand: 'Apple',
model: '16Pro',
price: 124999,
free: 'Free Boat Earphone'
},
{
_id: ObjectId('693d86b88f96dc3641e2629'),
name: 'Mobile',
brand: 'Iqoo',
model: 'Neo6',
price: 26999,
free: 'Free Boat Earphone'
}
]
products>
```

ii. Delete Many document

Deleted products less than 27000

```
mongosh mongodb://127.0.0.1:27017
{
  model: 'X200',
  price: 130000,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2625'),
  name: 'Airpod',
  brand: 'Noise',
  model: 'VS102',
  price: 999,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2626'),
  name: 'Laptop',
  brand: 'Asus',
  model: 'TUE',
  price: 68000,
  Offer: 'Free 3 Month Xbox Game Pass',
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2627'),
  name: 'Mobile',
  brand: 'Apple',
  model: '11Pro',
  price: 124000,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2629'),
  name: 'Mobile',
  brand: 'Iqoo',
  model: 'Neo6',
  price: 26000,
  free: 'Free Boat Earphone'
}
]
products> db.gadget.deleteMany({price:{$lt:27000}})
{ acknowledged: true, deletedCount: 3 }
products>
```

```
mongosh mongodb://127.0.0.1:27017
{
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2629'),
  name: 'Mobile',
  brand: 'Iqoo',
  model: 'Neo6',
  price: 26000,
  free: 'Free Boat Earphone'
}
]
products> db.gadget.deleteMany({price:{$lt:27000}})
{ acknowledged: true, deletedCount: 3 }
products> db.gadget.find()
[
  {
    _id: ObjectId('693d83b38f96dc3d3641e2621'),
    name: 'Laptop',
    brand: 'Lenovo',
    model: 'LOQ',
    price: 60000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2622'),
    name: 'Laptop',
    brand: 'HP',
    model: 'Victus',
    price: 65000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2623'),
    name: 'Mobile',
    brand: 'Samsung',
    model: 'G24',
    price: 120000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2624'),
    name: 'Mobile'
```

```
mongosh mongoDB:127.0.0.1 - + -
```

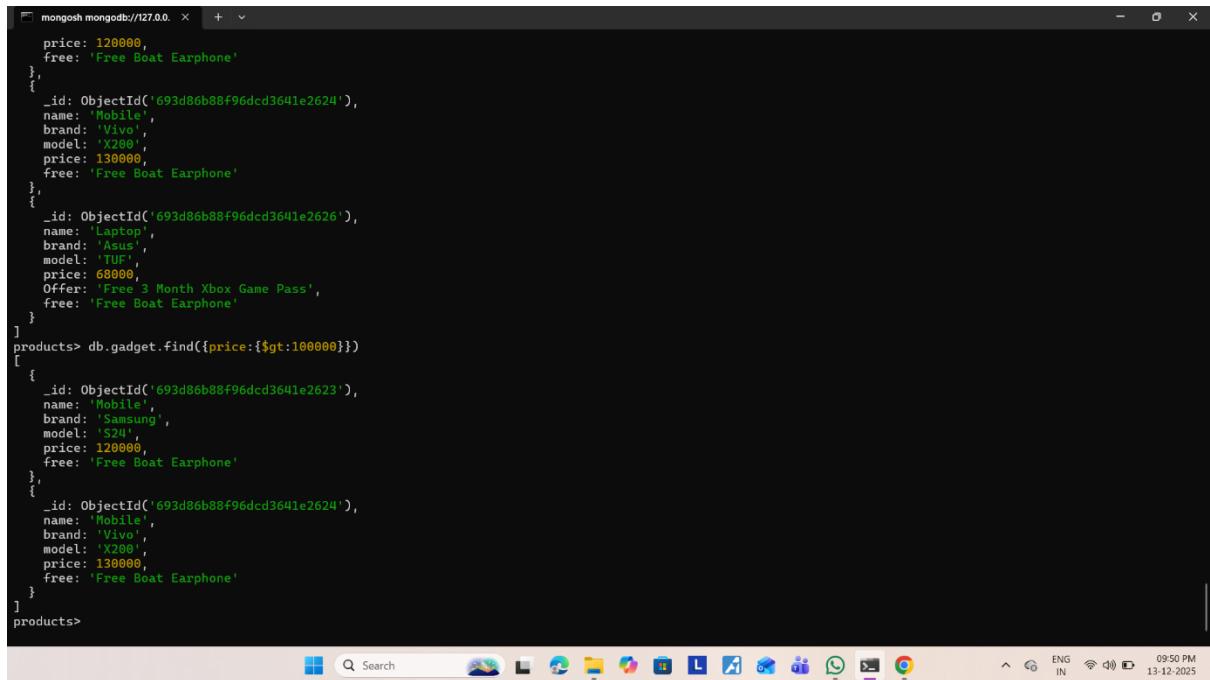
```
name: 'Laptop',
brand: 'Lenovo',
model: 'LOQ',
price: 60000,
free: 'Free Boat Earphone'
},
{
_id: ObjectId('693d86b88f96dc3d3641e2622'),
name: 'Laptop',
brand: 'HP',
model: 'Victus',
price: 65000,
free: 'Free Boat Earphone'
},
{
_id: ObjectId('693d86b88f96dc3d3641e2623'),
name: 'Mobile',
brand: 'Samsung',
model: 'S24',
price: 120000,
free: 'Free Boat Earphone'
},
{
_id: ObjectId('693d86b88f96dc3d3641e2624'),
name: 'Mobile',
brand: 'Vivo',
model: 'X200',
price: 130000,
free: 'Free Boat Earphone'
},
{
_id: ObjectId('693d86b88f96dc3d3641e2626'),
name: 'Laptop',
brand: 'Asus',
model: 'TUF',
price: 68000,
Offer: 'Free 3 Month Xbox Game Pass',
free: 'Free Boat Earphone'
}
]
```

products>

```
Windows Search Start Task View File Home Mail Photos Video Power User Help ENG IN 09:42 PM 13-12-2025
```

6. Query Operators

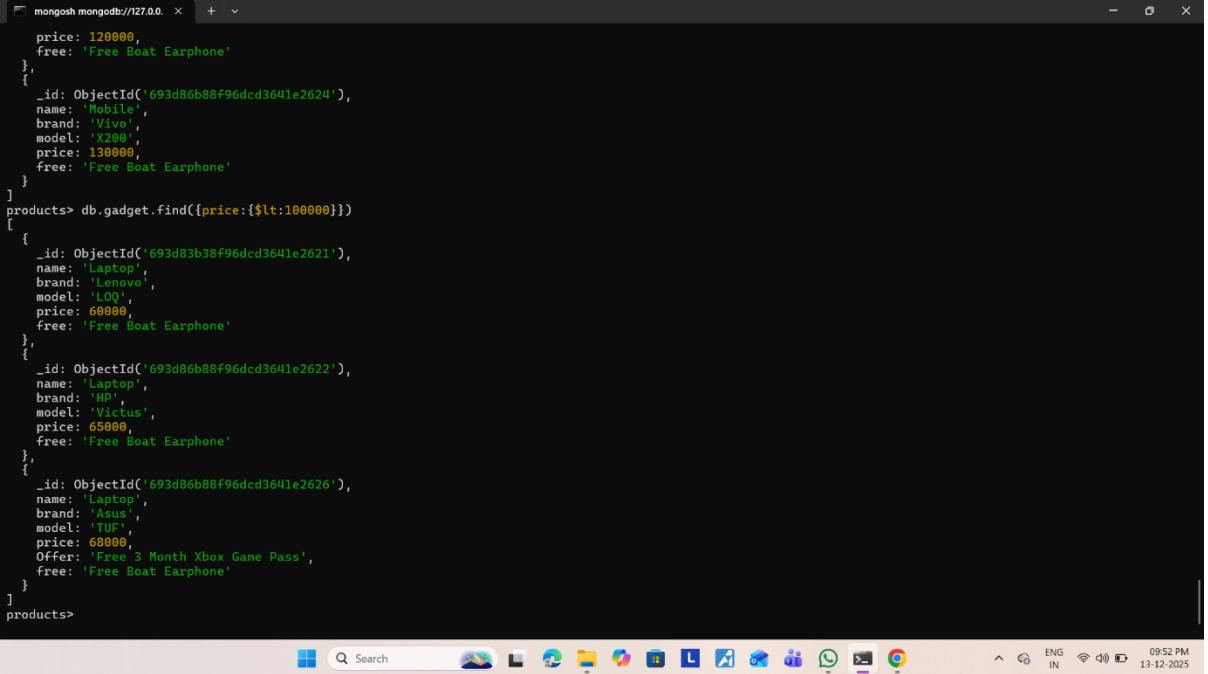
i. \$gt



A screenshot of a Windows desktop showing a terminal window titled "mongosh mongodb://127.0.0.1:27017". The terminal displays a MongoDB shell session. The user has defined a collection of products and then run a query to find documents where the price is greater than 100000. The results show three documents: a mobile phone, a laptop, and another mobile phone, all with prices above 100000.

```
mongosh mongodb://127.0.0.1:27017
price: 120000,
free: 'Free Boat Earphone'
}
{
  _id: ObjectId('693d86b88f96dc3d3641e2624'),
  name: 'Mobile',
  brand: 'Vivo',
  model: 'X200',
  price: 130000,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2626'),
  name: 'Laptop',
  brand: 'Asus',
  model: 'TUF',
  price: 60000,
  Offer: 'Free 3 Month Xbox Game Pass',
  free: 'Free Boat Earphone'
}
]
products> db.gadget.find({price:{$gt:100000}})
[
  {
    _id: ObjectId('693d86b88f96dc3d3641e2623'),
    name: 'Mobile',
    brand: 'Samsung',
    model: 'S24',
    price: 120000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2624'),
    name: 'Mobile',
    brand: 'Vivo',
    model: 'X200',
    price: 130000,
    free: 'Free Boat Earphone'
  }
]
products>
```

ii. \$lt



The screenshot shows a Windows desktop environment with a MongoDB shell window titled "mongosh mongodb://127.0.0.1:27017". The command entered is:

```
products> db.gadget.find({price:{$lt:100000}})
```

The output displays five documents from the "gadget" collection, each representing a product. The products listed are:

- A Mobile phone (Vivo X200) with a price of 120000 and a free offer of "Free Boat Earphone".
- A Mobile phone (Vivo X200) with a price of 130000 and a free offer of "Free Boat Earphone".
- A Laptop (Lenovo IdeaPad 100) with a price of 60000 and a free offer of "Free Boat Earphone".
- A Laptop (HP Victus) with a price of 65000 and a free offer of "Free Boat Earphone".
- An Asus TUF laptop with a price of 60000, an offer of "Free 3 Month Xbox Game Pass", and a free offer of "Free Boat Earphone".

The MongoDB shell interface includes a toolbar with icons for search, file operations, and database management, and a status bar at the bottom showing "09:52 PM 13-12-2025".

iii. \$in

```
mongosh mongodb://127.0.0.1:27017
{
  price: 60000,
  free: 'Free Boat Earphone'
}
{
  _id: ObjectId('693d86b88f96dc3d3641e2622'),
  name: 'Laptop',
  brand: 'HP',
  model: 'Victus',
  price: 65000,
  free: 'Free Boat Earphone'
},
{
  _id: ObjectId('693d86b88f96dc3d3641e2626'),
  name: 'Laptop',
  brand: 'Asus',
  model: 'TUF',
  price: 68000,
  Offer: 'Free 3 Month Xbox Game Pass',
  free: 'Free Boat Earphone'
}
]
products> db.gadget.find({brand:{$in:["Lenovo","Samsung"]}})
[
  {
    _id: ObjectId('693d83b38f96dc3d3641e2621'),
    name: 'Laptop',
    brand: 'Lenovo',
    model: 'L00',
    price: 60000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2623'),
    name: 'Mobile',
    brand: 'Samsung',
    model: 'G24',
    price: 120000,
    free: 'Free Boat Earphone'
  }
]
products>
```

iv. \$and

```
mongosh mongodb://127.0.0.1:27017/test
{
  _id: ObjectId('693d86b88f96dc3d3641e2626'),
  name: 'Laptop',
  brand: 'Asus',
  model: 'TUF',
  price: 68000,
  Offer: 'Free 3 Month Xbox Game Pass',
  free: 'Free Boat Earphone'
}
products> db.gadget.find({$brand:{$in:["Lenovo","Samsung"]}})
[
  {
    _id: ObjectId('693d83b38f96dc3d3641e2621'),
    name: 'Laptop',
    brand: 'Lenovo',
    model: 'L00',
    price: 60000,
    free: 'Free Boat Earphone'
  },
  {
    _id: ObjectId('693d86b88f96dc3d3641e2623'),
    name: 'Mobile',
    brand: 'Samsung',
    model: 'S24',
    price: 120000,
    free: 'Free Boat Earphone'
  }
]
products> db.gadget.find({$and:[{name:"Laptop"},{price:{$lt:65000}}]})
[
  {
    _id: ObjectId('693d83b38f96dc3d3641e2621'),
    name: 'Laptop',
    brand: 'Lenovo',
    model: 'L00',
    price: 60000,
    free: 'Free Boat Earphone'
  }
]
products>
```

v. \$or

```
[ mongosh mongoDB://127.0.0.1:27017 - + - ]  
products> db.gadget.find({$and:[{name:"Laptop"},{price:{$lt:65000}}]})  
[  
  {  
    _id: ObjectId('693d83b38f96dc3d3641e2621'),  
    name: 'Laptop',  
    brand: 'Lenovo',  
    model: 'L00',  
    price: 60000,  
    free: 'Free Boat Earphone'  
}  
]  
products> db.gadget.find({$or:[{brand:"Lenovo"},{price:{$lt:100000}}]})  
[  
  {  
    _id: ObjectId('693d83b38f96dc3d3641e2621'),  
    name: 'Laptop',  
    brand: 'Lenovo',  
    model: 'L00',  
    price: 60000,  
    free: 'Free Boat Earphone'  
},  
  {  
    _id: ObjectId('693d86b88f96dc3d3641e2622'),  
    name: 'Laptop',  
    brand: 'HP',  
    model: 'Victus',  
    price: 65000,  
    free: 'Free Boat Earphone'  
},  
  {  
    _id: ObjectId('693d86b88f96dc3d3641e2626'),  
    name: 'Laptop',  
    brand: 'Asus',  
    model: 'TUF',  
    price: 68000,  
    Offer: 'Free 3 Month Xbox Game Pass',  
    free: 'Free Boat Earphone'  
}  
]  
products>
```