## **LAB NO 10**

## INDEXING IN MONGODB

## **OBJECTIVE:**

To learn and implement different types of indexes in MongoDB.

## **LAB TASKS:**

1. Create a collection named "products" and insert at least 10 documents.

2. Create a compound index on the "category" and "price" fields. Write a query that utilizes the index created.

3. Write a query that utilizes the newly created index to find products in a specific category with prices greater than a certain value. (Note: Explore the implementation of for loop, keyword 'const' and embed it in this query result).

```
test> const category = "Dairy";
... const minPrice = 100;
...
... const result = db.products.find({
... category: category,
... price: { $gt: minPrice }
... }).sort({ category: 1, price: 1 });
... result.forEach(doc => printjson(doc));
...
... result.forEach(doc => printjson(doc));
... result.forEach(doc => printjson(doc));
...
... result.forEach(doc => printjson(doc));
... result.forEach(doc) => printjson(doc) => printjson(doc) => printjson(doc) => printjson(doc) => printjson(
```

4. Create a text index on the field category.

5. Create an index with key -1 and observe the difference.

6. Create a collection named "articles" with documents containing "title" and "content" fields. Create a text index on the "content" field. Perform a text search to find articles containing a specific keyword. (Note: Explore the implementation of for loop, keyword 'const' and embed it in this query result.