**EX.NO:3 Write a Program to Perform Parallel Indexing for a Database**

CREATE DATABASE IF NOT EXISTS parallel\_indexing\_example;

Query OK, 1 row affected (0.01 sec)

mysql> USE parallel\_indexing\_example;

Database changed

mysql> CREATE TABLE IF NOT EXISTS my\_table (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255),

value INT);

Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO my\_table (name, value) VALUES

-> ('John', 100),

-> ('Jane', 150),

-> ('Bob', 200),

-> ('Alice', 120),

-> ('Charlie', 180);

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> set session transaction isolation level serializable;

Query OK, 0 rows affected (0.00 sec)

mysql> START TRANSACTION;

Query OK, 0 rows affected (0.00 sec)

mysql> CREATE INDEX idx\_value\_parallel ON my\_table (value)

->ALGORITHM=INPLACE, LOCK=NONE;

mysql> COMMIT;

Query OK, 0 rows affected (0.00 sec)

mysql> SHOW INDEX FROM my\_table;

+----------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

| Table | Non\_unique | Key\_name | Seq\_in\_index | Column\_name | Collation | Cardinality | Sub\_part | Packed | Null | Index\_type | Comment | Index\_comment |

+----------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

| my\_table | 0 | PRIMARY | 1 | id | A | 5 | NULL | NULL | | BTREE | | |

+----------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

1 row in set (0.00 sec)