**5. JDBC CRUD Operations (Insert, Update, Select, Delete)**

**• Theory:**

1. **Insert: Adding a new record to the database:-** In the context of databases, the INSERT operation is used to add new records to a table. This operation is fundamental in managing data within a relational database.

**Syntax:-**

INSERT INTO table\_name (column1, column2, column3, ...) VALUES (value1, value2, value3, ...)

1. **Update: Modifying existing records:-** The UPDATE operation in SQL is used to modify existing records in a database table. This operation is essential for maintaining and changing data as needed.

**Syntax:-**

UPDATE table\_name SET column1 = value1, column2 = value2, ... WHERE condition;

1. **Select: Retrieving records from the database:-** The SELECT operation in SQL is used to retrieve records from one or more tables in a database. This operation is fundamental for querying and analyzing data.

**Syntax:-**

SELECT column1, column2, ... FROM table\_name WHERE condition;

1. **Delete: Removing records from the database:-** The DELETE operation in SQL is used to remove one or more records from a table in a database. This operation is essential for managing data and ensuring that outdated or irrelevant information is removed.

**Syntax:-**

DELETE FROM table\_name WHERE condition;