**DataBase Connection by (Sesir, Md Tariqul Islam….23-51017-1)**

If we don't already have it installed, we must first install a few items on our device in order for the database connection to function.

The first thing I did was download and install MySQL-connector-java 8.0.28 together with **Xampp** server.

I launched the MySQL module, Apache, and phpMyAdmin after opening the **Xampp** server from the Xampp control panel. I made a table called **"Faculty"** with three columns there, as well as a database named "**stdinfomngt."** The values that follow are then added to the table, which has three rows total.

A screenshot of a computer

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**Fig 1: table create in MySQL server**

A screenshot of a computer

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**Fig 2: Output of the table from the MySQL server**

**3) Writing the java code**

Chosen an Integrated Development Environment (IDE) of my choice. I used **visual studio** code for Java development. In my Java code, loaded the MySQL Java Connector driver by importing the JAR file into my project and using the Class.forName() method to register it. Used the DriverManager.getConnection() method to establish a connection to my MySQL database by providing the appropriate URL, username, and password. My username was root and there was no password set. After establishing the connection, created a Statement or Created Statement object to execute SQL queries. Used the created statement to execute SQL queries like SELECT, INSERT, UPDATE, or DELETE. Captured the necessary results. Used the ResultSet object to retrieve and process the data. Performed necessary operations on the data retrieved from the database.

A screenshot of a computer program

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**Fig 3: code in vs code for java and sql connection**

A screen shot of a computer

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**Fig 4: output from vs code after connect with my sql connector java**