Task_2 – Explaination

1. Purpose of the program

This program is used to **fetch student records from the database** and **display them on the console**.
It reads data from the **Students_Info** table.

---

2. Database connection

- The program first **connects to the database** using a separate database connection class.
- If the connection is successful, the program can communicate with the database and run queries.

---

3. SQL query execution

- A query is sent to the database to **retrieve all rows and columns** from the Students_Info table.
- The database processes this request and returns the result.

---

4. Receiving data from the database

- The returned data is stored in a **result set**, which works like a table of rows.
- Each row represents **one student record**.

---

5. Reading data row by row

- The program goes through the result set **one record at a time**.
- For each student, it reads:
    - Student ID

- Name
- Age
- Gender
- Email
- Mobile number
- Class / Standard

---

6. Displaying the student details

- After reading all details of a student, the program **prints them in a single line**.
- This process repeats until **all student records are displayed**.

---

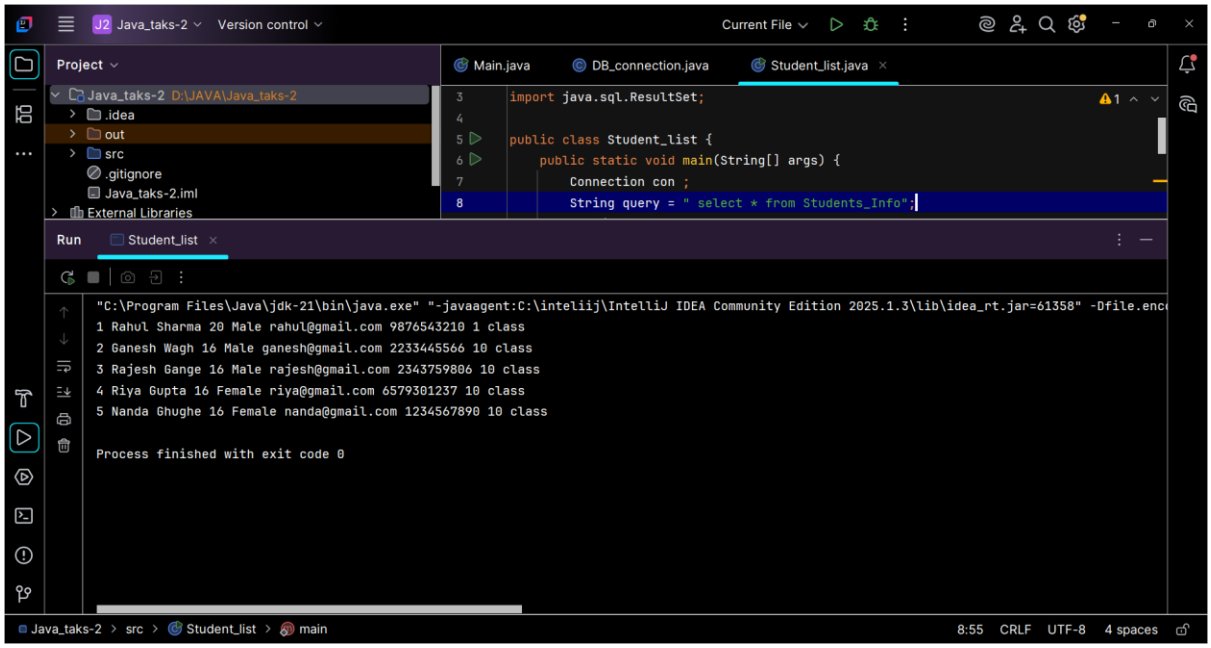
7. Error handling

- If any problem occurs (like database not connected, table not found, or wrong column name),
  the program **shows the error details** to help identify the issue.

---

8. Program completion

- Once all records are printed, the program finishes execution.
- No changes are made to the database — it is **read-only**.


Java_taks-2
Version control
Current File
Project
Java_taks-2 D:\JAVA\Java_taks-2
.idea
out
src
.gitignore
Java_taks-2.iml
External Libraries
Main.java
DB_connection.java
Student_list.java
3 import java.sql.ResultSet;
4
5 public class Student_list {
6 public static void main(String[] args) {
7 Connection con ;
8 String query = " select * from Students_Info";
Run
Student_list
"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\inteliij\IntelliJ IDEA Community Edition 2025.1.3\lib\idea_rt.jar=61358" -Dfile.enc
1 Rahul Sharma 20 Male rahul@gmail.com 9876543210 1 class
2 Ganesh Wagh 16 Male ganesh@gmail.com 2233445566 10 class
3 Rajesh Gange 16 Male rajesh@gmail.com 2343759806 10 class
4 Riya Gupta 16 Female riya@gmail.com 6579301237 10 class
5 Nanda Ghughe 16 Female nanda@gmail.com 1234567890 10 class
Process finished with exit code 0
Java_taks-2 > src > Student_list > main
8:55 CRLF UTF-8 4 spaces