

➤ Login System Using Java and JDBC

The screenshot shows the IntelliJ IDEA interface with the project structure and code editor. The code in `login.java` is as follows:

```
public class login { new *  
    public static void main(String[] arg) { new *  
        System.out.println(" Enter Your Name");  
        String Name = sc.next();  
        System.out.println(" Enter Your Password");  
        String Pass = sc.next();  
        Validation.validation(Name, Pass);  
    }  
}
```

The run output window shows the application's interaction with the user:

```
"C:\Program Files\Java\jdk-23\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2025.2.6\lib\idea_rt.jar=55684" -Dfile.encoding=UTF-8 -Dsun.s...  
Name : Mahesh Nikas, Branch : IT  
..... login .....  
Enter Your Name  
Mahesh  
Enter Your Password  
Mahesh@1234  
Connection Succesful  
User Not Valid  
  
Name : Mahesh Nikas, Branch : IT  
..... login .....  
Enter Your Name
```

At the bottom, the status bar indicates: Task > src > Login_System > login > main.

The screenshot shows the IntelliJ IDEA interface with the project structure and code editor. The code in `login.java` is identical to the one in the previous screenshot:

```
public class login { new *  
    public static void main(String[] arg) { new *  
        System.out.println(" Enter Your Name");  
        String Name = sc.next();  
        System.out.println(" Enter Your Password");  
        String Pass = sc.next();  
        Validation.validation(Name, Pass);  
    }  
}
```

The run output window shows the application's interaction with the user, including validation errors:

```
Name : Mahesh Nikas, Branch : IT  
..... login .....  
Enter Your Name  
Mahesh  
Enter Your Password  
Mahesh@123  
Connection Succesful  
User Validate login succesfully  
  
Name : Mahesh Nikas, Branch : IT  
..... login .....  
Enter Your Name
```

At the bottom, the status bar indicates: Task > src > Login_System > login > main.

Login System Using Java and JDBC

Project Overview

- Type: Console-based login application
- Technology: Java, JDBC, SQL
- Purpose: Validate user login credentials

Main Features

- Accept username and password from user
- Validate credentials using database
- Allow access for valid user
- Reject invalid user

Program Structure

- login.java – Takes user input and starts login process
- Validation.java – Verifies username and password
- DBConnection.java – Creates database connection
- PropertyLoader.java – Loads database configuration

Database Usage

- Database stores user login details
- Username and password are matched from database

JDBC Components Used

- Connection – Connects Java application to database
- PreparedStatement – Executes login validation query
- ResultSet – Checks whether user exists

Execution Flow

- User enters username and password
- Validation method is called
- Database connection is established
- Credentials are verified
- Login result is displayed

Output Result

- Valid credentials → User Validate login successfully
- Invalid credentials → User Not Valid