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**Advanced Programming**

**Project**

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**Course: advanced programming**

**Group: 1**

**To begin with, this is a console-based program, source code programmed with JAVA using Netbeans IDE 12.4, connected to MySQL 8.0 Data Base.**

**The main idea of the project is to implement a program that takes info of students and store it in the data base then offer the user to retrieve it.**

**We started by creating the data base and created a table in it to store the data**

**\*screen shot of data base creating inst.\***

**The program consists of four options displayed to the user when it is first run**

**\*screenshot of option menu in console\***

**We implemented that step by using switch case in JAVA**

**\*screenshot of main code\***

**The first important step in implementing each option is to get connection to the data base, and that is only possible if the correct driver is installed correctly. To do that we install it then put it among the libraries of our package**

**\*screen shot of jar driver in libraries\***

**Then use that driver and calling it with these two lines of code**

**\*screenshot of getConnection method\***

**After making sure we had connectivity working perfect, we implemented the first option**

**\*screenshot of addRecord method\***

**\*here we discuss correct outputs and wrong ones and how we handled the errors within the first option\***

**Following it by the second method that retrieves all records stored in the data base and show it to user**

**\*screenshot of readAllRecords method\***

**\*here we discuss correct outputs and wrong ones and how we handled the errors within the second option\***

**To the third option which help the user searching for all records belonging to a specific name entered by the user**

**\*screenshot of search method\***

**\*here we discuss correct outputs and wrong ones and how we handled the errors within the third option\***