VIGNAN'S NIRULA
INSTITUTE OF TECHNOLOGY & SCIENCE FOR WOMEN
(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)
Vignan Avenue, Peda Palakaluru, Guntur - 522009

Department of Information Technology

Innovative Practice

Faculty Name : Dr. V. Pavani, B.Aruna Kumari
Course Name : Java Programming
Class : II B. Tech II Semester
Academic Year : 2022-2023
Title of the Topic : JDBC Connectivity
Activity Name : Flipped Classroom

Objective of the Activity:
The objective of the Flipped Classroom activity is to enable students to engage in a self-paced learning environment where they review the concepts of exception handling in Java. This activity aims to help students understand how exceptions are used to handle runtime errors, allowing them to implement and manage errors effectively in their Java programs.

Pre-Class Preparation:

Video Lecture Links

www.youtube.com/@indianprogrammer0001

In-Class Problem-Solving: Group Discussion

Objective: To understand the different aspects of the exception handling mechanism in Java by presenting key concepts and use cases.

Group Division:

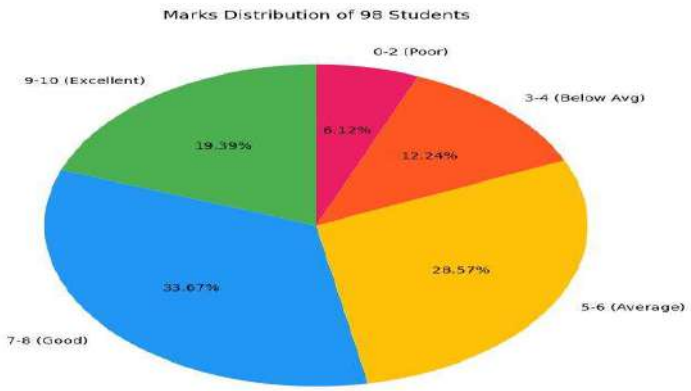
Group A: Introduction to JDBC
Group B: JDBC Drivers and Types
Group C: Establishing a Database Connection
Group D: Executing SQL Queries and Updates

Group E: Handling SQLExceptions and Error Handling
Group F: Closing Resources and Connection Management

Screenshots of the Practice

Assessment Analysis

Marks Range	Number of Students	Percentage
9-10 (Excellent)	19	19.39%
7-8 (Good)	33	33.67%
5-6 (Average)	28	28.57%
3-4 (Below Avg)	12	12.24%
0-2 (Poor)	6	6.12%
Total	**98**	**100%**



Conclusion

By using JDBC, developers can efficiently perform database operations such as querying, updating, and managing data. Understanding key concepts like JDBC drivers, connection management, executing SQL statements, and handling exceptions is essential for building robust database-driven applications.

Signature of the Faculty **Head of the Department**