

Innovative Teaching Practice

Faculty Name : Dr. V. Pavani, Mrs.B.Aruna Kumari
Course Name : Java Programming
Class : II B. Tech II Semester
Academic Year : 2021-2022
Title of the Topic : Real-World Applications of Classes, Methods, and Constructors
Activity Name : Flipped Classroom

Objective of the Activity:

Enable students to understand and apply the concepts of classes, methods, and constructors in solving real-world programming problems.

Pre-Class Plan:

- **Resources Shared:** Video tutorials

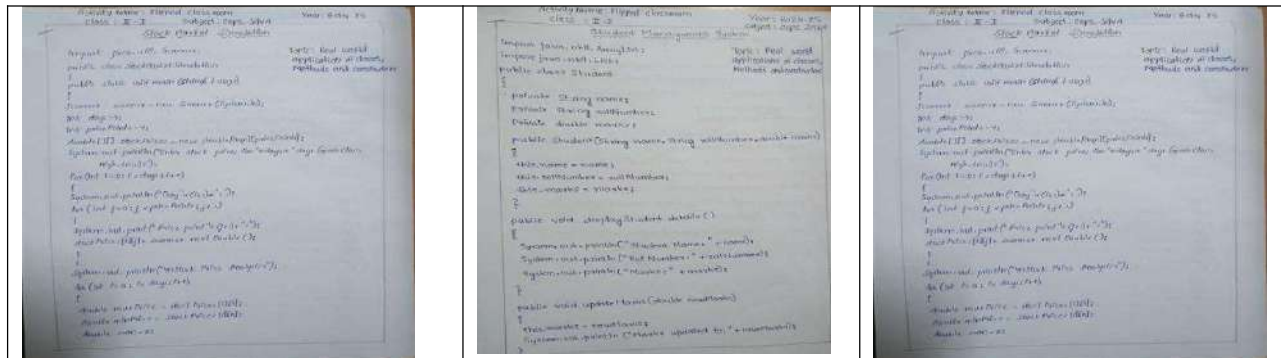
In-Class Plan:

- **Activity Steps:**
 - Warm-up quiz to reinforce pre-class concepts.
 - Group activity to design and implement case studies.
 - Presentation and peer discussion to promote collaborative learning.

Post-Class Plan:

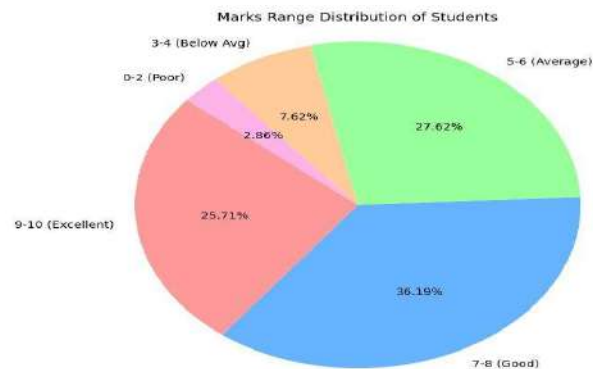
- **Assignment:** Extend the functionality of the code implemented during class.
- **Evaluation Criteria:** Code quality, use of constructors and methods, and creativity in extending the application.

Screenshots of the Practice



Assessment analysis:

Marks Range	Number of Students	Percentage
9-10 (Excellent)	27	25.71%
7-8 (Good)	38	34.19%
5-6 (Average)	29	27.62%
3-4 (Below Avg)	8	7.62%
0-2 (Poor)	3	2.86%
Total	101	100%



Conclusion

The flipped classroom activity on "**Real-World Applications of Classes, Methods, and Constructors**" proved to be an effective method to enhance student engagement and understanding of object-oriented programming concepts.

Signature of the Faculty

Head of the Department