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 Teaching Practice

Course Information:

Faculty Name	**:** B.Aruna Kumari,
Course Name	**:** OOPS Through C++
Class	**:** II B.Tech I Semester
Academic Year	**:** 2023-2024
Activity Name	**:** Think-Pair-Share
Topic	**:** Polymorphism

Objective of the Activity:

The objective of the Think-Pair-Share activity is to engage students in a collaborative learning environment where they can deepen their understanding of the concept of Polymorphism in C++.

Implementation Details:

Pre-Class Preparation

- The students received reading material on what polymorphism is, how to implement it, and its types compile-time and run-time polymorphism in C++.
- Each student prepared two examples, one demonstrating function overloading and another demonstrating function overriding, to discuss during the activity.

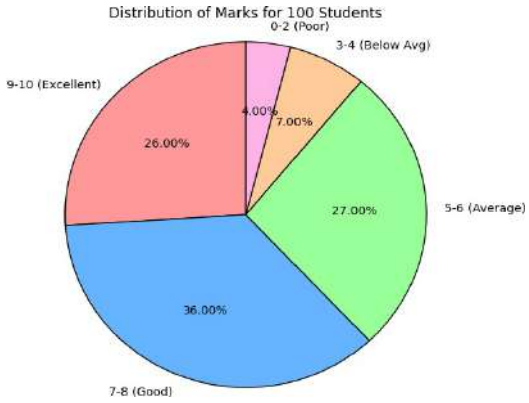
In-Class Activity:

- **Think Phase:** Students were given 10 minutes to individually think about a real-world example that could be implemented using polymorphism in C++.
- **Pair Phase:** Students then paired up with their neighbors to share their examples, discuss improvements, and refine their understanding.
- **Share Phase:** Each pair presented their refined examples to the class, demonstrating how to implement function overloading and function overriding in C++.

Images / Screenshot of the practice:

Assessment analysis:

Marks Range	Number of Students	Percentage
9-10 (Excellent)	26	26.00%
7-8 (Good)	36	36.00%
5-6 (Average)	27	27.00%
3-4 (Below Avg)	7	7.00%
0-2 (Poor)	4	4.00%
Total	100	**100%**



Benefits of practice:

1. **Enhances Communication:** It allows for clear feedback to students about their understanding of concepts like function overriding and dynamic binding.
2. **Supports Better Teaching:** I can tailor my lessons to address specific areas where students struggle, such as understanding base and derived classes.

Signature of Faculty **Head of the Department**