



Department of Computer Science and Engineering

Academic Year 2022– 2023(Odd Semester)

Degree, Semester & Branch: B.E – V Semester ECE ‘B’

Course Code & Title: CS8392 Object Oriented Programming

Name of the Faculty member: Dr.K.Vivekrabinson, AP/CSE

Innovative Practice Description

- **Unit / Topic:** Unit V / Generic Programming, Generic classes
- **Course Outcome:** CO4
- **Topic Learning Outcome:** TLO11
- **Activity Chosen:** Think Pair Share
- **Justification:**
 - Think pair share activity involves the students to think individually and to share the knowledge with classmates.
 - In java, Generic Programming allows us to create a single class, interface and method that can be used with different types of data (objects).
 - The student’s individual solving capability can be tested and the gained ideas can be shared by think-pair-share activity
- **Time Allotted for the Activity:** 10 Minutes
- **Details of the Implementation:**
 - Faculty explained the concept of Generic Programming, Generic classes.
 - Programs containing different parts of code are missing is displayed
 - Students were asked to write the answer for the program individually within the given time as shown in Fig 1.
 - Then the students were asked to discuss the answers with their neighbors as shown in Fig 2
 - Few students were called in front of the class and asked to share the correct answers after discussion as shown in fig 3.

• CO – PO / PSO mapping:

CO	PO1	PO2	PO3	PO9	PO10	PSO1
CO2	3	3	2	1	1	1

(1 – Low 2 – Moderate 3 – High)



• **PO / PSO mapped:**

Innovative practice	PO1	PO2	PO3	PO9	PO10	PSO1
Justification for correlation	It involves logical thinking and make the student able to think about problem solving approach	Students will be able to approach the problem by applying the generic programming concept they learnt	Students will be able to provide solution for the problem	As the student involved in the activity as team, the team work skill improved	Students communication skill will be improved as they are facing audience and communicating the activity	The problem solving skill earned through this activity helps the students in solving various problems

• **Images / Screenshot of the practice:**



Fig 1: Students thinking about the given problem



Fig 2: Students pair with the neighbors and discuss the answers



Fig 3: Students share the knowledge with the whole class

- **Reflective Critique:**

- ❖ ***Feedback on practice from students and other stakeholders:***

- The students felt that this activity is so interesting and helped them to remember the concepts of generic programming.
- They said it will be very helpful when preparing for exams.

- ❖ ***Benefit of the practice:***

- This practice helps the students to remember the concept as they applied what they studied.
- It leads to peer-to-peer learning.
- It helps in improving communication by effectively delivering the things they learned.

- ❖ ***Challenges faced in implementation:***

- All the students were unable to complete the task within the allotted time.
- Few students found it difficult to solve the expressions individually. After discussion, they felt it was easy.
- Unable to complete the activity within the planned time.

References:

- ❖ https://www.ritrjpm.ac.in/images/computer-science/2021-2022/RV-OIT551-DBMS_TPS.pdf
- ❖ <https://www.readingrockets.org/strategies/think-pair-share>
- ❖ <https://www.wgu.edu/heyteach/article/how-think-pair-share-activity-can-improve-your-classroom-discussions1704.html>

Signature of Faculty Member

HOD