

Collaborative Learning

Academic Year 2022-2023 Odd Semester

Degree, Semester & Branch : Semester B.TECH-IT
Course(Subject) Code & Title : JCS1303 Computer Architecture
Name of the Faculty member : Dr.D.Parameswari

Innovative Practice: Reflection

Topics: Booth Algorithm, Restoring and Non Restoring Algorithms

Objectives:

O1: To encourage the students to come up with more questions and doubts on the topics that they are not clear.

Justification for choosing this topic:

Reflection is a process where teachers can identify their own teaching process and analysing how their teaching (content delivery) might be improved for the better understanding of the students. The prime objective of Reflection is to make the students write their doubts in a paper on topics which they are not clear, so as the teacher can discuss and clarify the concepts that are not understood by the students.

Activity on Reflection:

After part of the lesson is completed, in order to address the doubts and to know the level of understanding of the students, they are insisted to honestly describe the concepts that they didn't understand well. The students wrote their doubts and topics which they are not clear. The papers are collected by the course instructor and discussed all the doubts in next class session and make them understand. The course instructor also provided a short written explanation on the papers collected from the students for future reference.

Observations made:

- The topics in which students have some doubts or not clear:
 - **Booth Algorithm**
 - **Restoring and Non Restoring Algorithms**
- Some of the students unaware of the Solving Problems using Booth Algorithm, Restoring and Non Restoring Algorithms.

Action taken:

- Explanation is written in all the students' paper and common doubts among students are discussed and explained in the next lecture session.

OUTCOME:

Through this activity the students can recollect the topics on Booth Algorithm, Restoring and Non Restoring Algorithms. The students are made to understand how to solve the problem

using the algorithm in which they are not clear and ensured that they understood the topics thoroughly.

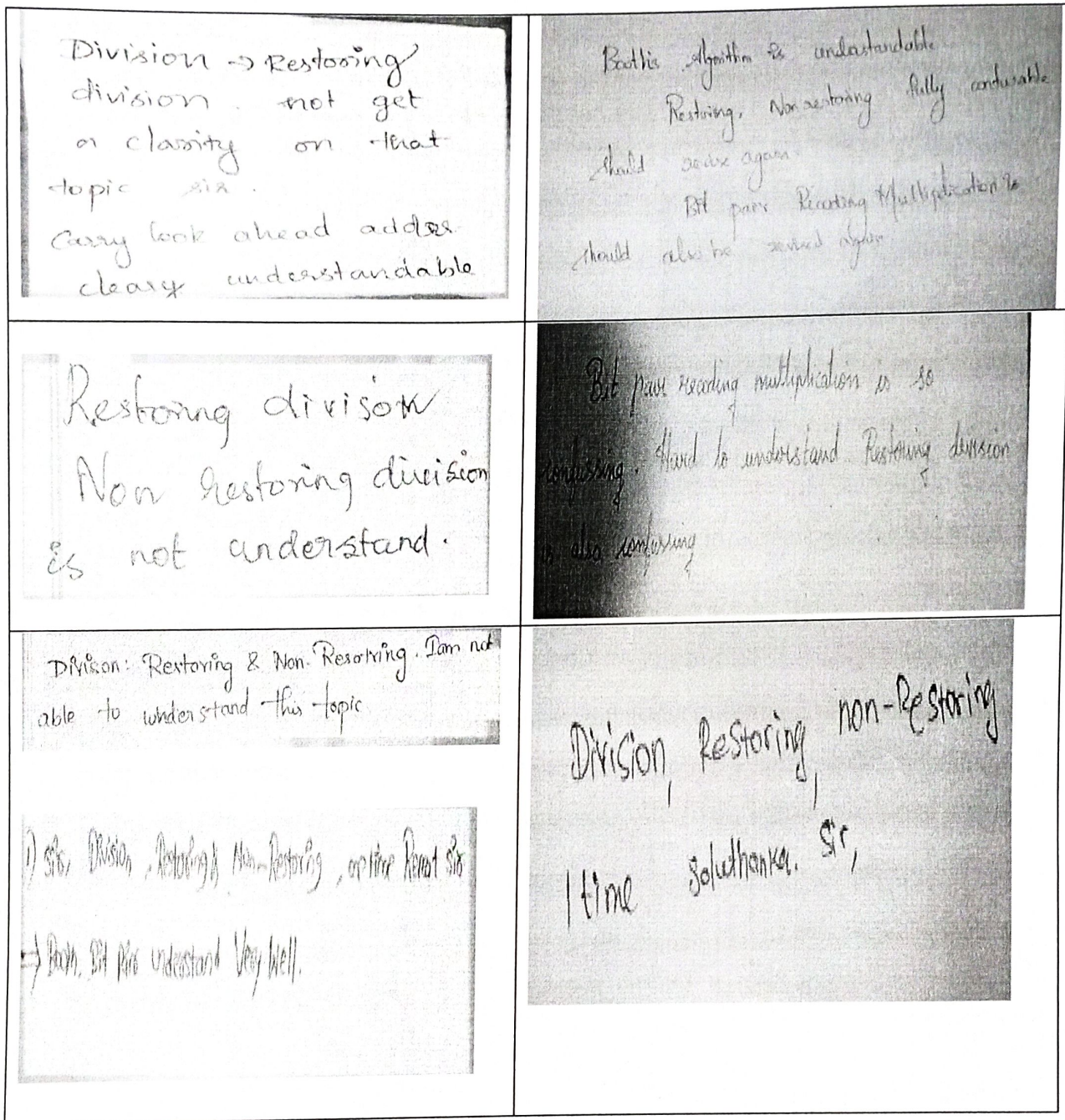


Fig.1 Some of the student's doubt written in the paper

Relevance Mapping - This activity helps in attaining the following Objectives – PO mapping:

Objective and PO Mapping:

Objectives	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
O1	3	1	2							2		2

Reflection Critique

Challenges:


- Students were not able to frame or express their doubts in English sentence properly and some questions were not clear to understand.
- Slow learners were not interested to participate in this innovative teaching and submitted the empty paper.
- Some of the students did not even ready to write their doubts
- Students started to discuss and shout with their neighbours during the activity.

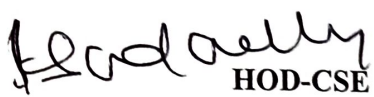
Steps taken for address the challenges

- Initially, I started to check some of the papers and asked to students not to frame any complex questions.
- I motivated the slow learners to involve in activity effectively by means of addressing the usefulness of this activity for them.

Reference:

1. <https://www.slideshare.net/AnnieKavitha1/reflective-teaching-as-innovative-approach-ppt>
2. https://www.ritrjpm.ac.in/images/computer-science/4_OIT551_Reflection.pdf


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