K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU-560109

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADVANCED JAVA AND J2EE (17CS553)
Think, Pair and Share (TPS) Activity REPORT

**Syllabus Covered in TPS:**

String Handling

Methodology Used:

The program statement was given to the students for developing the Java code. The teams were formed among the students to think the problem statement and develop the Java code with efficient logic. The teams came up with different solutions and discussed those solutions with other teams. The activity concluded with the best solution.

The statement given for the activity was:

Develop a Java program to print first non repeated character from String.

[For Example, 1. if given String is "Morning" then it should print "M"
2. if given String is "Madam" then it should print "d"]

Class Engaged: September 20th 2019 from 8:40 am to 9:35 am [1st Hour]
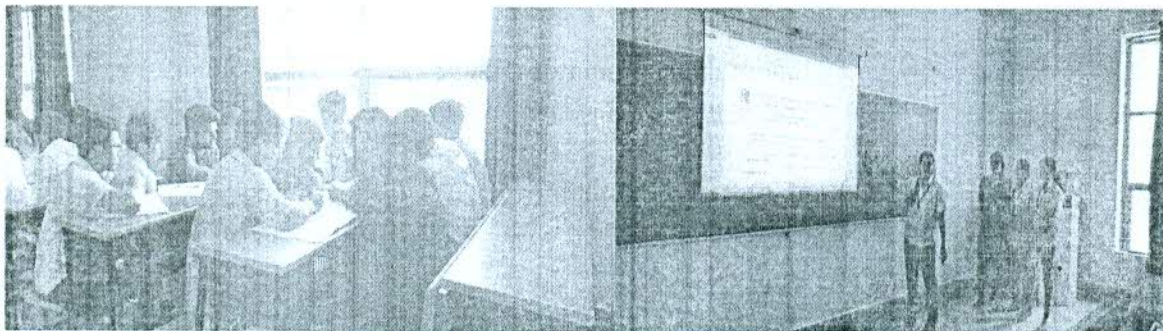
Outcome of TPS Activity: Students interaction was good. Along with the syllabus they learnt how to analyze, apply logic and write the Java code. The students were able to share the logic and understand the best solution considering the programming constraints.

Veena 20/9/19
Course-In charge

Veena 20/9/19
Signature of HOD
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FLIPPED CLASSROOM ACTIVITY

Legacy Classes In Java Collection Framework

ADVANCED JAVA AND J2EE (17CS553)
FLIPPED CLASS ROOM REPORT

Syllabus Covered in Flipped class room:

Legacy Classes in Collection Framework:
- Legacy Classes
- Vector, Stack, Dictionary, Hashtable and Properties class.
- Enumeration interface

Methodology Used:

The educational videos have been selected to display the contents in the class. Discussed the topics in between by taking the examples. Students interacted during the complete session.

Class Engaged: Oct 9th 2019 from 10:45 am to 11:40 am [3rd Hour]

Video URLs Used:

Vector (6.18 Minutes)
https://www.youtube.com/watch?v=P0f7CLUcbD8

Stack (12.17 Minutes)
https://www.youtube.com/watch?v=_9fECudYEz8

Dictionary (12.27 Minutes)
https://www.youtube.com/watch?v=NRasYtoC9FE

Hashtable (12.42 Minutes)
https://www.youtube.com/watch?v=mvmw0PwVI9o

Properties (4.44 Minutes)

https://www.youtube.com/watch?v=8GU6d2560F4
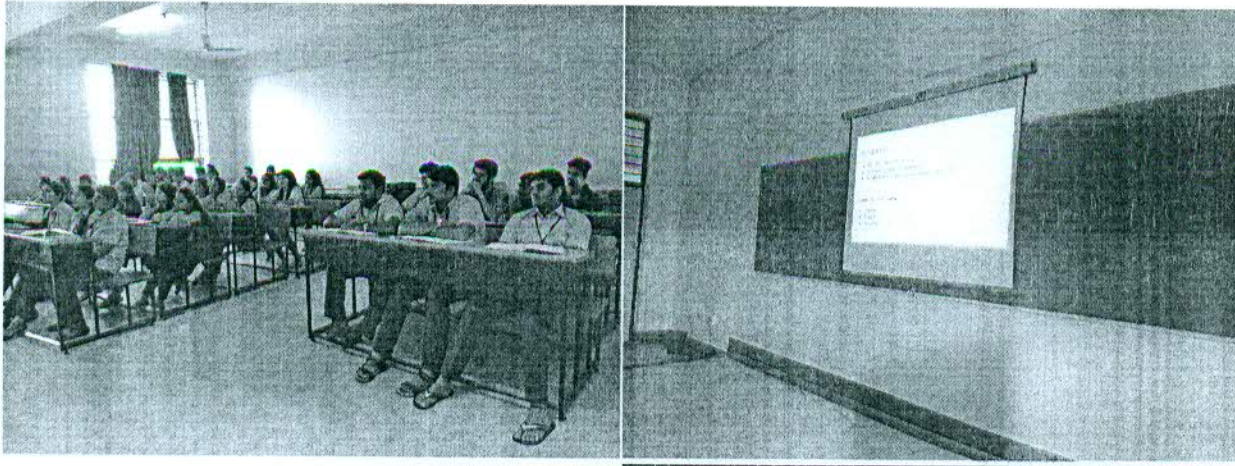
Outcome of Flipped class: Students interaction was good. Along with the syllabus they learnt the additional topics in Collection Framework. Question and answers session was done at the end of the class based on the knowledge they got from the videos.

Questions discussed from the point of view of final SEE examination:

1. Differentiate between legacy classes and Collection Framework.
2. Explain any four legacy class of Java's collection framework.
3. Explain the following legacy classes with an example:
    a. Hashtable b. Dictionary
4. Define legacy class – Vector. Write a Java program to demonstrate various vector operations.
5. Differentiate between peek() and pop() methods of legacy class – Stack.
6. What do you mean by Properties class in Java.
7. Write the hierarchy of Dictionary, Hashtable and Properties legacy classes in terms of parent-child relationship.

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Out-of-class-activity -1

Learning Objective(s) of Out-of-Class Activity

At the end of watching the videos, student should be able to

- Differentiate between legacy classes and Collection Framework and brief understanding on the legacy class, Vector and its methods.
- Explain the legacy classes defined by java.util and brief understanding on the legacy classes, Dictionary, Hashtable and Properties.
- Elucidating on Stack and its methods.

Key Concept(s) to be covered

- Legacy Classes and Interfaces
  Vector, Stack, Dictionary, Hashtable, Properties and Enumeration

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Out-of-class-activity -2

Main Video Source URLs
1. https://www.youtube.com/watch?v=P0f7CLUcbD8
2. https://www.youtube.com/watch?v=_9fECudYEz8
3. https://www.youtube.com/watch?v=NRasYtoC9FE
4. https://www.youtube.com/watch?v=mvmw0PwVl9o
5. https://www.youtube.com/watch?v=8GU6d2560F4

Mapping Concept to Video Source   **Total Duration: 47.48**

CONCEPT	VIDEO SEGMENT	DURATION (in min)
Vector	VIDEO	6.18
Stack	VIDEO	12.17
Dictionary	VIDEO	12.27
Hashtable	VIDEO	12.42
Properties	VIDEO	4.44

Out-of-class Activity- 3

Aligning Assessment with Learning Objective

Learning Objective	Assessment Strategy	Expected Duration	Additional Instructions (if any)
1. Brief understanding on the legacy class, Vector and its methods.	Q1.Define legacy class – Vector. Write a Java program to demonstrate various vector operations.	12.42 Minutes	Watch Video 1.

Out-of-class Activity- 4

Aligning Assessment with Learning Objective

Learning Objective	Assessment Strategy	Expected Duration	Additional Instructions (if any)
2. Brief understanding on the legacy classes, Dictionary, Hashtable and Properties.	Q2. Explain the legacy classes Dictionary, Hashtable and Properties, with an example.	24.44 Minutes	Watch Videos 3, 4 and 5.

Out-of-class Activity- 5

Aligning Assessment with Learning Objective

Learning Objective	Assessment Strategy	Expected Duration	Additional Instructions (if any)
3. Elucidating on Stack and its methods.	Q3. Differentiate between peek() and pop() methods of legacy class – Stack.	12.17 Minutes	Watch Video 2.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADVANCED JAVA AND J2EE (17CS553)
Think, Pair and Share (TPS) Activity REPORT

Syllabus Covered in TPS:

Java Server Pages (JSP)

Methodology Used:

The program statement was given to the students for developing the Java code. The teams were formed among the students to think the problem statement and develop the Java code with efficient logic. The teams came up with different solutions and discussed those solutions with other teams. The activity concluded with the best solution.
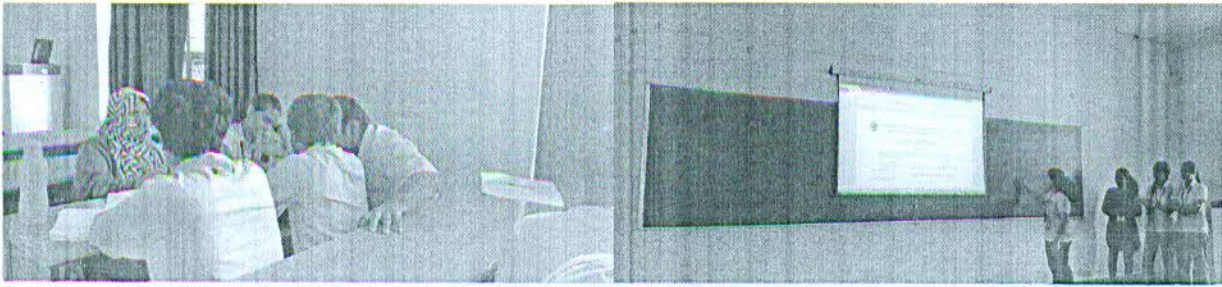
The statement given for the activity was:

Develop a JSP Program to count the number of visitors on website.

Class Engaged: November 6th 2019 from 9:35 am to 10:30 am [2nd Hour]
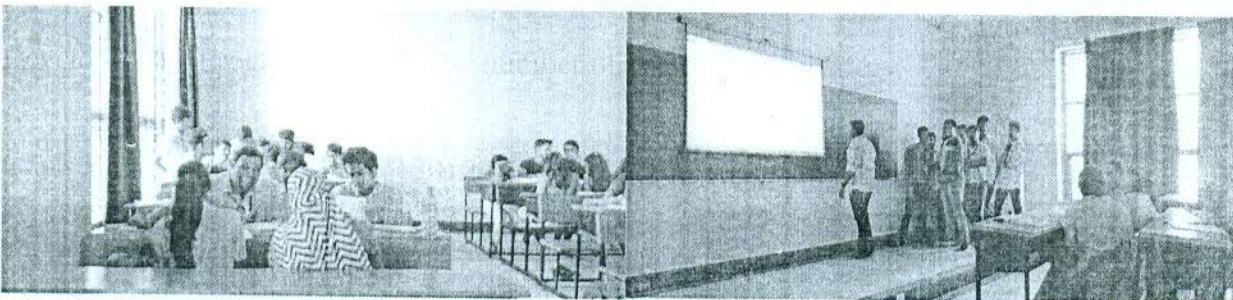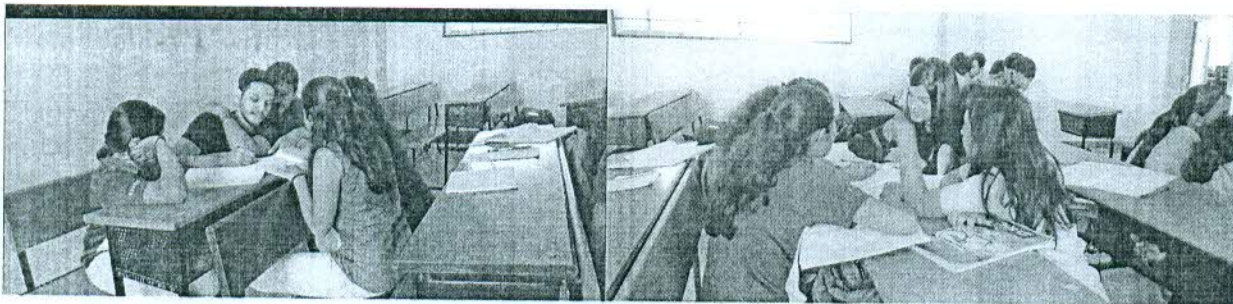
Outcome of TPS Activity: Students interaction was good. Along with the syllabus they learnt how to analyze, apply logic and write the Java code. The students were able to share the logic and understand the best solution considering the programming constraints of JSP.

Course-In charge 6/11/19

Signature of HOD 6/11/19

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