

Course Information:

- **Faculty Name:** B.Aruna Kumari
- **Course Name:** Java Programming
- **Class:** II B.Tech II Semester
- **Academic Year:** 2023-2024
- **Activity Name:** Project Based Learning
- **Topic:** AWT and Event Handling.

Objective of the Activity:nmm

The objective of the Project-Based Learning (PBL) activity was to engage students in a hands-on, collaborative environment where they enhanced their practical understanding of Abstract Window Toolkit (AWT). This activity helped students improve their critical thinking, problem-solving, and teamwork skills as they developed projects that integrated AWT for GUI development. Through real-world applications, students gained a deeper understanding of key Java concepts, including GUI components, event handling,

Implementation Details:

Pre-Class Preparation:

- Provided reading materials and video tutorials covering the basics of AWT and Event Handling. Each student was instructed to set up their Java development environment and review examples of creating graphical user interfaces (GUIs) using AWT.
- Students were asked to come prepared with ideas for small projects that could incorporate AWT controls.
- **In-Class Activity:**

1. **Introduction (10 minutes):** The instructor briefly reviewed key AWT components and Event Handling.
2. **Project Assignment (10 minutes):** Students were assigned to small groups and given a project to develop a simple application using AWT for the user interface. The project could be a designing a calculator using AWT and Event Handling.
3. **Hands-On Development (60 minutes):**

- Each group worked on designing the user interface with AWT components, handling events like button clicks.
- The instructor provided support and feedback throughout the process, guiding students through any coding issues or challenges.

4. **Presentation and Discussion (20 minutes):**

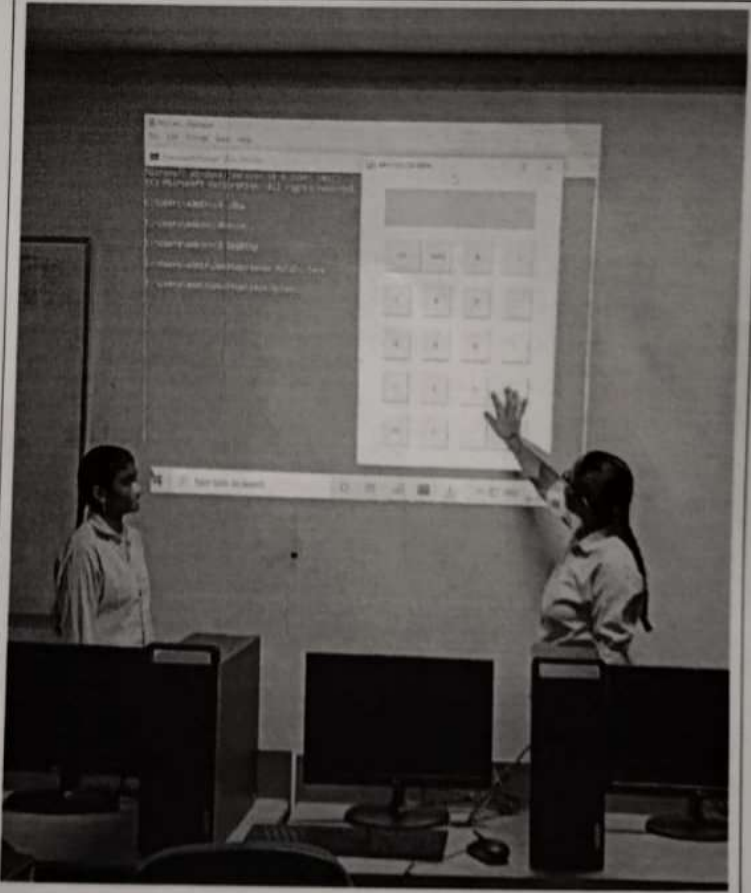
- Each group presented their project to the class, explaining how AWT components and Event Handling were used in their application.
- The class engaged in a discussion about the challenges they faced, the solutions they applied, and potential improvements to their projects.

Assessment Criteria:

- Project Work (10 M)
- Team Contribution(10 M)
- Presentation Skills-10 M

Instructor Feedback: Overall, I would like to express my appreciation for the effort and creativity demonstrated by all teams during the project work on AWT and Event Handling. Each team project showcased a solid understanding of the concepts and effective implementation, contributing to an impressive range of functionalities. Collaboration among team members was notably strong, with most teams establishing clear roles and responsibilities, enhancing their overall performance. The presentations varied in effectiveness, with many teams engaging the audience well and addressing questions confidently, although some would benefit from more practice in delivery and pacing. Overall, the projects reflected both individual and collective growth, highlighting the value of teamwork and practical application of knowledge.

Images / Screenshot of the practice

Project Based Learning Activity	Screenshot of the practice
<p>Presentation and output of project (CALCULATOR) By Batch 5</p>	

Benefits of practice:

As an instructor, I found that this practice:

- **Enhanced Critical Thinking and Problem-Solving Skills:** Project-based learning encourages students to engage in real-world challenges, fostering critical thinking and problem-solving abilities. By working on projects that require them to analyze information, develop solutions, and evaluate outcomes, students become more adept at tackling complex issues.
- **Increased Engagement and Motivation:** This learning approach allows students to take ownership of their learning through hands-on activities that are relevant to their interests and future careers. The collaborative nature of projects also promotes teamwork, making the learning experience more enjoyable and motivating, which can lead to better retention of knowledge and skills.

B. Anurag Kumar
Signature of Faculty Member

K. S. Sankar
Head of the Department

ASSESSMENT FORM

Batch No	Roll Number	Student Name	Project Work(10 M)	Team Contribution (10 M)	Presentation Skills(10 M)	Total (30 M)
1	22NN1A1230	Konakanchi Gayathri Devi	7	6	6	19
	22NN1A1221	Guduru Rishi Naga Udayasree	8	7	7	22
	22NN1A1245	Pasupuleti Reka Madhuri	8	9	8	25
	22NN1A1234	Maddi Bala Venkata Vara Shriya	7	8	6	21
2	22NN1A1202	Battini Bhavani	8	7	8	23
	22NN1A1239	Mukkapati Srilatha	7	6	7	20
	22NN1A1258	Talathoti Jhansi	5	7	5	17
	22NN1A1233	Madamanchi Chaithanya	7	8	7	22
3	22NN1A1209	Cherukuri Bhumika	6	7	7	20
	22NN1A1248	Ponnaganti Naga Himaja	8	8	7	23
	22NN1A1206	Chaganti Bhargavi	6	7	8	21
	22NN1A1223	Javvaji Meghana	7	7	6	20
4	22NN1A1224	Javvaji Venkata Madhu Sreeja	5	6	5	16
	22NN1A1231	Koppanathi Suhasini	8	7	7	22
	22NN1A1212	Dongari Sirisha	7	8	8	23
	22NN1A1204	Bhattarusetty Pranava	7	6	8	21
5	22NN1A1222	Gumma Vennela	6	7	7	20
	22NN1A1247	Pokuri Deepthi	7	5	6	18
	22NN1A1229	Konakanchi Abhinayasri	7	7	8	22
	22NN1A1220	Gorre Nageswari	9	7	8	24
6	22NN1A1210	Chopparapu Pallavi Preethi	6	7	6	19
	22NN1A1250	Prudhivi Poojitha	7	7	6	20
	22NN1A1217	Gangineni Shanmukhi Harsha	8	7	7	22
	22NN1A1201	Balabhadrapatruni Girija Satwika	7	6	7	20
7	22NN1A1244	Othuri Soniya	7	8	6	21
	22NN1A1208	Changa Tulasi	8	9	7	24
	22NN1A1219	Gollapalli Lavanya	8	7	8	23
	22NN1A1215	Gaddhe Keerthi	8	7	7	22
8	22NN1A1236	Masetty Kavya	7	6	5	18
	22NN1A1227	Kodavali Aswani	8	8	9	25

	22NNIA1203	Bellamkonda Lithisha	6	8	5	19
	22NNIA1253	Saripudi Laya	7	7	6	20
9	22NNIA1242	Narala Saritha	8	7	7	22
	22NNIA1255	Shaik Nazima	8	9	8	25
	22NNIA1216	Ganesana Aswitha	7	6	8	21
	22NNIA1235	Madimala Vijaya Lakshmi	8	7	8	23
10	22NNIA1256	Shaik Razia	5	6	5	16
	22NNIA1218	Garikapati Bhanuteja	8	6	7	21
	22NNIA1254	Shaik Abida Masthani	7	7	9	23
	22NNIA1213	Dulipalla Manasa Prasanna	7	9	8	24
11	22NNIA1260	Yadlapalli Saipriya	7	6	7	20
	22NNIA1259	Tiriveedhi Anjali	8	5	6	19
	22NNIA1232	Kusam Lakshmi Pujitha	7	7	8	22
	22NNIA1243	Nemalikanti Prathyusha	8	7	6	21
12	22NNIA1207	Challa Bindhu	7	9	7	23
	22NNIA1240	Mundru Sowjanya	7	7	8	22
	22NNIA1211	Dondapati Pranathi	6	7	5	18
	22NNIA1257	Shaik Shabana	7	7	6	20
13	22NNIA1228	Kommalapati Haasika	8	9	7	24
	22NNIA1226	Kavuri Varsha	7	8	8	23
	22NNIA1246	Penumetcha Varshita	6	7	6	20
	22NNIA1251	Puppala Naga Sahithi	6	5	6	17
14	22NNIA1241	Muraboyina Durgagayatri	7	8	7	22
	22NNIA1252	Ravella Naga Venkata Harika	6	7	8	21
	22NNIA1249	Potlacheruvu Jahnvi Priyanka	9	8	8	25
	22NNIA1225	Karlapudi Jyothirmai	6	7	7	20
15	22NNIA1205	Boddu Gangothi	7	7	8	22
	22NNIA1237	Masetty Lakshmi Chandana	9	8	7	24
	22NNIA1214	Elluri Lavanya	5	6	6	17
	22NNIA1238	Meesala Hemalatha	7	6	8	21

B. Anur Kumari
Signature of the Faculty