



Workshop Report

Date: 25/10/2024

Name of the activity:	Workshop (Four Days)
Title of the activity:	From Classroom to Career: DSA with Java, Taught by Industry Professionals (Pros)
Brief description of the activity:	<p>Day-1: Welcome & Overview: Introduction to Java programming. Java Basics: Data types, variables, operators, and control flow. IDE Setup: Installing and configuring your Java development environment. Session: Array Fundamentals, Introduction to Arrays. Hands-on Practice: Create and manipulate arrays (basic exercises).</p> <p>Day-2: Leet Code Introduction: Overview of the platform and solving strategies. Array Problems 101: Tips and tricks for tackling array-related questions. Group Activity: Discuss solutions and optimization techniques in pairs or small groups.</p> <p>Day-3: Sorting Algorithms: Bubble Sort, Merge Sort, Quick Sort. Searching Algorithms: Binary Search, Linear Search, Advanced Array Techniques. Hands-On Lab: Implement and optimize sorting and searching algorithms.</p> <p>Day-4: Introduction to Strings: String literals, String class, and common methods. String Operations: Concatenation, substring, and immutability. Practice problem-solving with Strings.</p>
Objectives of the activity:	<ul style="list-style-type: none">• Gain a comprehensive understanding of Java and explore the fundamentals of arrays.• Utilize your array knowledge to tackle real-world challenges on Leet Code.• Delve into array algorithms to enhance your problem-solving abilities.• Master the key concepts of string handling and manipulation in Java.• Leverage your string manipulation skills to solve complex problems on Leet Code.
Outcomes of the activity:	<p>The participants will be able to:</p> <ul style="list-style-type: none">• Build a strong foundation in Java and arrays.• Apply array knowledge to solve real-world problems on Leet Code.• Improve problem-solving skills through key array algorithms.• Master string handling and manipulation in Java.• Solve complex problems on Leet Code using string



	manipulation techniques.
Mode of Delivery:	Offline
Venue:	Seminar Hall 7
Organized by:	Department of Computer Science and Engineering, MITS(DU) Gwalior
Convener:	Dr. Manish Dixit, Professor & Head
Coordinators:	Dr. Smita Parte, Prof. Mahesh Parmar
Name of the Experts:	External Experts 1. Harsh Vardhan Sen & Team of Professionals (Coding Thinker)
Duration:	Four Day
Dates & Time :	16th October 2024 4:00-6:00 PM 17th October 2024 2:00-4:00 PM 18th October 2024 4:00-6:00 PM 19th October 2024 2:00-4:00 PM
Participants:	B.Tech 3 rd Year students and Faculty members
Number of participants:	138
Level of Activity:	Institute Level
Registration Fee:	No registration Fee (In House activity)
Award/Certificate:	Hard Copy of Certificates will be provided

Description of the activity:

Day 1: Introduction to Java Programming, Harsh Vardhan Sen and his team kicked off the workshop by introducing Java programming basics, covering data types, variables, operators, and control flow. Participants set up their development environment and were introduced to arrays, followed by hands-on exercises to practice creating and manipulating arrays.

Day 2: LeetCode and Array Problem Solving, The second day focused on LeetCode, teaching participants how to use the platform and solve problems efficiently. The session covered array-related challenges with tips and tricks for optimization, followed by a group activity where attendees collaborated to discuss solutions and improve their problem-solving techniques.

Day 3: Sorting & Searching Algorithms, Day 3 introduced key sorting algorithms (Bubble Sort, Merge Sort, Quick Sort) and searching techniques (Binary Search, Linear Search). Participants implemented



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these algorithms through hands-on exercises, focusing on optimization and real-world applications in data manipulation.

Day 4: Mastering Strings in Java, The final day of the workshop covered string manipulation in Java, including string literals, the String class, and common methods. Participants practiced string operations like concatenation and substring extraction, applying these skills in problem-solving exercises to enhance their Java expertise.

Attendance:



Department of CSE

The Department of Computer Science and Engineering (CSE) is organizing a four-day workshop titled "From Classroom to Career: Data Structures and Algorithms (DSA) with Java," taught by industry professionals. The workshop is held on October 16th, 17th, 18th, and 19th, 2024, in Seminar Hall 7. The following students were present during the event.

Sr. No	Enroll. No.	Name of Student	16/10/2024	17/10/2024	18/10/2024	19/10/2024
1	0901CS221004	Aditya kumar	Aditya	Aditya	Aditya	Aditya
2	0901CS221098	Radhyush Gargashya	Radhyush	Radhyush	Radhyush	Radhyush
3	0901CS221049	RAUNAK MANDIL	RAUNAK	A	A	A
4	0901CS221070	VIDUSHI TINARI	VIDUSHI	A	A	A
5	0901CS221143	uttkarsh Pachauri	uttkarsh	uttkarsh	uttkarsh	A
6	0901CS221087	Akash Dixit	Akash Dixit	A	A	A
7	0901CS221006	Akanksha Mishra	Akanksha	Akanksha	Akanksha	Akanksha
8	0901CS221036	Deeksha Sharma	Deeksha	Deeksha	Deeksha	Deeksha
9	0901CS221016	Anika Sharma	A	A	A	A
10	0901CS221074	Kuldeep Bhargava	Kuldeep	Kuldeep	Kuldeep	Kuldeep
11	0901CS221066	Khushbu Chahal	Kushbu	Kushbu	Kushbu	Kushbu
12	0901CS221034	Ayush Bhojar	Ayush	Ayush	Ayush	Ayush
13	0901CS221108	Raj Thakrani	Raj	Raj	Raj	Raj
14	0901CS221005	Ajey Kumar Gupta	Ajey	Ajey	A	A
15	0901CS221109	Randeep Chaturvedi	Randeep	R	R	R
16	0901CS221035	ASMI SAXENA	A	A	A	A
17	0901CS221079	Muzank Sharma	Muzank	Muzank	Muzank	A
18	0901CS221072	Kaishna Sharma	Kaishna	Kaishna	Kaishna	Kaishna
19	0901CS221076	Malakani Pragnati	Malakani	Malakani	Malakani	Malakani
20	0901CS221054	Piyush Meshram	Piyush	Piyush	Piyush	Piyush
21	0901CS221052	Harsh Kulkarni	Harsh	Harsh	Harsh	Harsh
22	0901CS221056	Himanshu Roy	Himanshu	A	A	A
23	0901CS221028	ARUNAL GOPTA	Arunal	A	A	A
24	0901CS221008	Akash K. Thakur	Akash	Akash	Akash	Akash

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Sr. No	Enroll. No.	Name of Student	16/10/2024	17/10/2024	18/10/2024	19/10/2024
25)	0901CS221084	Kartik	Kar	Kartik	Kartik	Kartik
26)	0901CS221093	Nishesh Joshi	Nishesh	Nishesh	Nishesh	Nishesh
27)	0901CS221009	Akshat Jain	Akshat Jain	Akshat Jain	Akshat Jain	Akshat Jain
28)	0901CS221000	Abhijeet Sharma				
28)	0901CS221003	Abhijeet Sharma	Abhijeet	Abhijeet	Abhijeet	Abhijeet
29)	0901CS221029	Aryan Zutshi	Aryan	Aryan	Aryan	Aryan
30)	0901CS221039	Devansh Rajput	Devansh	Devansh	Devansh	Devansh
31)	0901CS221071	Krishna Agrawal	Krishna	A	A	A
32)	0901CS221062	Karan Chhabda	Karan	Karan	Karan	Karan
33)	0901CS221026	Aspit Chouhan	Aspit	A	A	A
34)	0901CS221018	Ansh Jain	Ansh Jain	Ansh Jain	Ansh Jain	Ansh Jain
35)	0901CS221057	Ishan Sharma	Ishan	Ishan	Ishan	Ishan
36)	0901CS221056	Himsagar Rajput	Himsagar	Himsagar	Himsagar	Himsagar
37)	0901CS221049	Darsh Arjeja	Darsh	Arjeja	Arjeja	Arjeja
38)	MTC2401006	Samrithya	Samrithya	A	A	A
39)	MTC2401008	Poonam	Poonam	A	A	A
40)	MTC2401008	Shubhi Jha	Shubhi	A	A	A
41)	MTC2401009	Shivani Arya	Shivani	A	A	A
42)	MTC2401002	Jeevani Saxena	Jeevani	A	A	A
43)	MTC2401011	Subhi Rajput	Subhi	A	A	A
44)	MTC2401004	Nisha Tomar	Nisha	Nisha	Nisha	Nisha
45)	MTC2401008	Shivani Tomar	Shivani	Shivani	Shivani	Shivani
46)	MTC2401010	Smriti Rathore	Smriti	A	Smriti	Smriti
47)	MTC2401002	Yash Sharma	Yash	A	A	A
48)	0901CS233005	Ayush Tripathi	Ayush	Ayush	Ayush	Ayush
49)	0901CD221016	Atul Chauhan	Atul	A	A	A
50)	0901AI231049	Raj Singh	Raj	A	A	A
51)	0901CD221071	Vishal Joswami	Vishal	A	A	A
52)	0901CD221068	Vaishnavi Kataria	Vaishnavi	A	A	A
53)	0901CD221038	Mukesh	Mukesh	A	A	A
54)	0901CS221135	Surendera Ahir	Surendera	Surendera	Surendera	Surendera
55)	0901CD221062	Tarish Uchariya	Tarish	Tarish	Tarish	Tarish
56)	0901CS233005	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
57)	0901CD221010	Ankit the Pe	Ankit	A	A	A
58)	0901CD221045	Poojan	Poojan	A	A	A



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Sr. No	Enroll. No.	Name of Student	16/10/2024	17/10/2024	18/10/2024	19/10/2024
94	0901CD221072	Vishal Rawat	Vishal Rawat	Vishal Rawat	A	A
95	0901CD221066	Uday Shakya	Uday	A	A	A
96	0901CS221050	Harsh Jain	Harsh	Harsh	A	A
97	0901CS233008	Lokendra Sharma	Lokendra	Lokendra	A	A
98	0901CS233003	Amul Aggarwal	A	A	A	A
99	0901ML233001	Ankit Rajput	Ankit	Ankit	A	Ankit
100	0901CS233007	Harshit Vashney	Harshit	Harshit	A	A
101	0901CS231130	Tammy Sawant	Tammy	Tammy	A	A
102	0901CD221029	JaiKesh Kain	JaiKesh	A	A	A
(Analysar) 103	LT-Entry	Devanshu Khat	Devanshu	A	A	A
104	0901CS221140	Uday Chhoriya	Uday	Uday	A	A
105	0901CS221138	Surya Pratap Singh	Surya	Surya	A	A
106	0901ET221032	Khusboo Tagoor	Khusboo	Khusboo	A	A
107	0901CS233011	Shreya Gaur	Shreya	Shreya	A	A
108	0901CS233010	Palak Dixit	Palak	Palak	A	A
109	0901CS233009	Lokesh Ganotiya	Lokesh	Lokesh	A	A
110	0901CS233006	Gowisha Rathore	G. Rathore	G. Rathore	A	A
✓ 111	0901CD221051	Ritesh Singh	Ritesh	Ritesh	A	A
112	0901CD221022	Devesh Singh	Devesh	A	A	A
112	0901CS243008	Prasant Suman	P. Suman	P. Suman	A	A
113	0901CD221077	Yogesh Prajapati	Yogesh	Yogesh	A	A
114	0901CS221153	Yashvardhan S. Jadao	Yashvardhan	Yashvardhan	A	A
115	0901CS221132	Suhani Mehra	Suhani	Suhani	A	A
116	0901CS221118	Rudraksh Shukla	Rudraksh	Rudraksh	A	A
117	0901CS233012	Vishal Kumbhakar	Vishal	Vishal	A	A
118	0901CS221078	Mayank Purohit	Mayank	Mayank	A	A
119	0901CS221070	Kolluru Shreya	Shreya	Shreya	A	A
120	0901CS221079	Maitri Gupta	Maitri	A	A	A
121	0901CS221117	Rohan Soni	Rohan	Rohan	A	A
122	0901CS221114	Kishabh Sharma	Kishabh	Kishabh	A	A
123	0901CS221063	Karan Singh Bhanu	Karan	Karan	A	A
123	0901CS221058	ISHAN SOHANI	ISHAN	ISHAN	A	A
125	0901CS221111	Sumit	Sumit	Sumit	A	A
130	0901CS221152	Abhishek Agrawal	Abhishek	Abhishek	A	A
✓ 131	0901IT221043	Nishay Patel Singh	Nishay	Nishay	A	A
✓ 132	0901ET221009	Aditi Gupta	Aditi	Aditi	A	A
133	0901EC221118	Shubham Sahu	Shubham	Shubham	A	A
134	0901EC221134	Tanish Pall	Tanish	Tanish	A	A
135	0901CS233012	Vishal Kumar Guddi	Vishal	Vishal	A	A
136	0901CS221147	Vijay Prajapati	Vijay	Vijay	A	A
137	0901CS221027	Aryan Bhanu	Aryan	Aryan	A	A
✓ 138	0901ME231073	Rishabh Bhanu	Rishabh	Rishabh	A	A



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Photos:

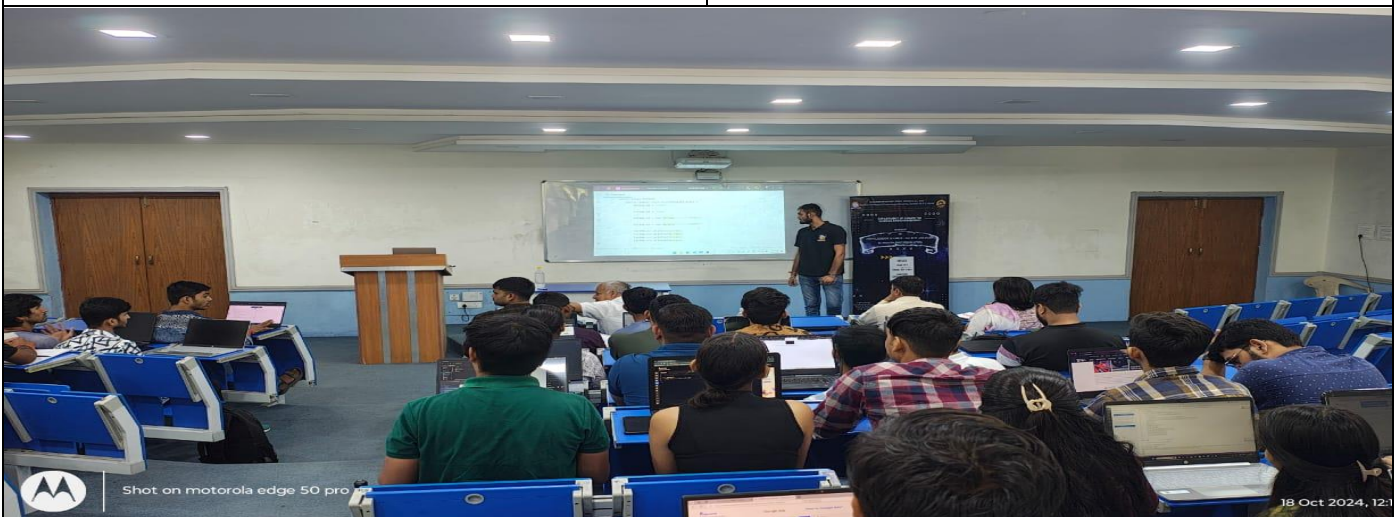
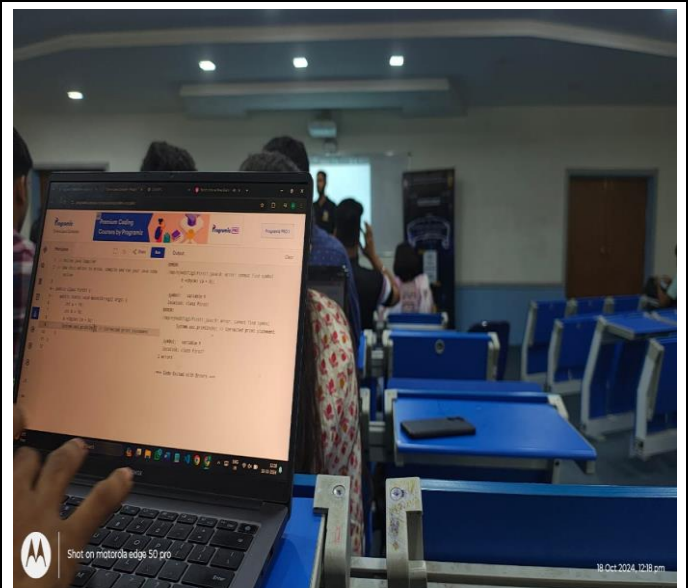


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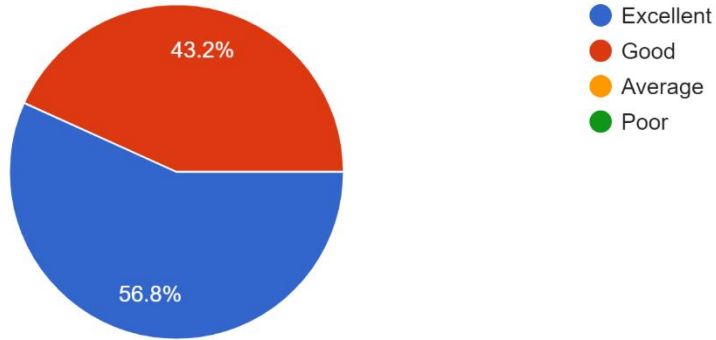


Feedback:



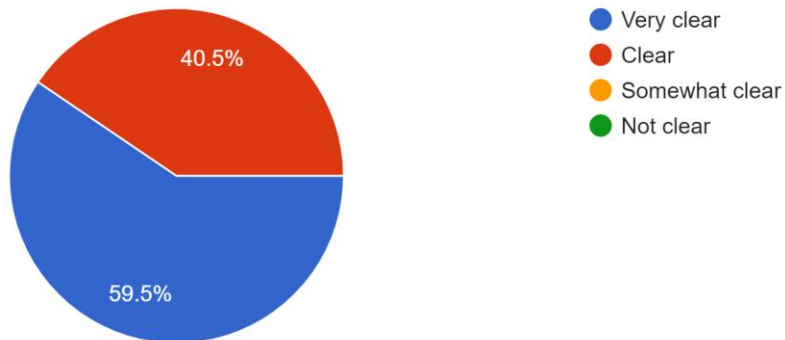
How would you rate the overall quality of the lecture content?

37 responses



How clearly did the speaker explain the topics?

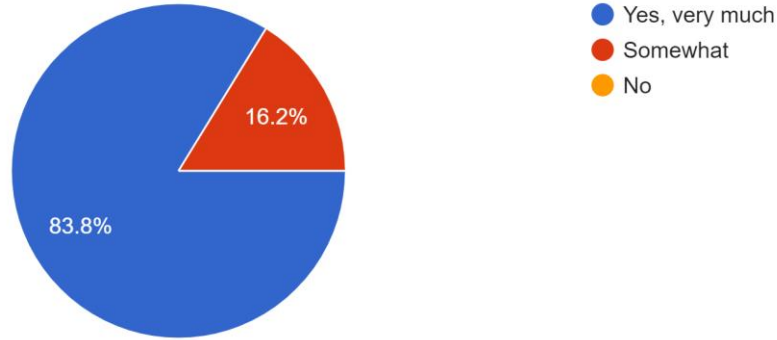
37 responses





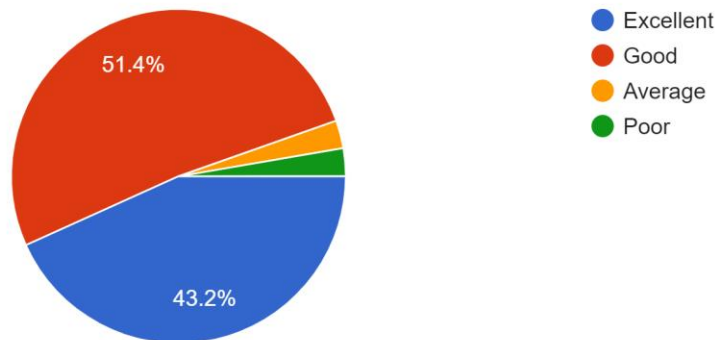
Did the speaker encourage interaction and participation?

37 responses



How would you rate the overall quality of the lecture content?

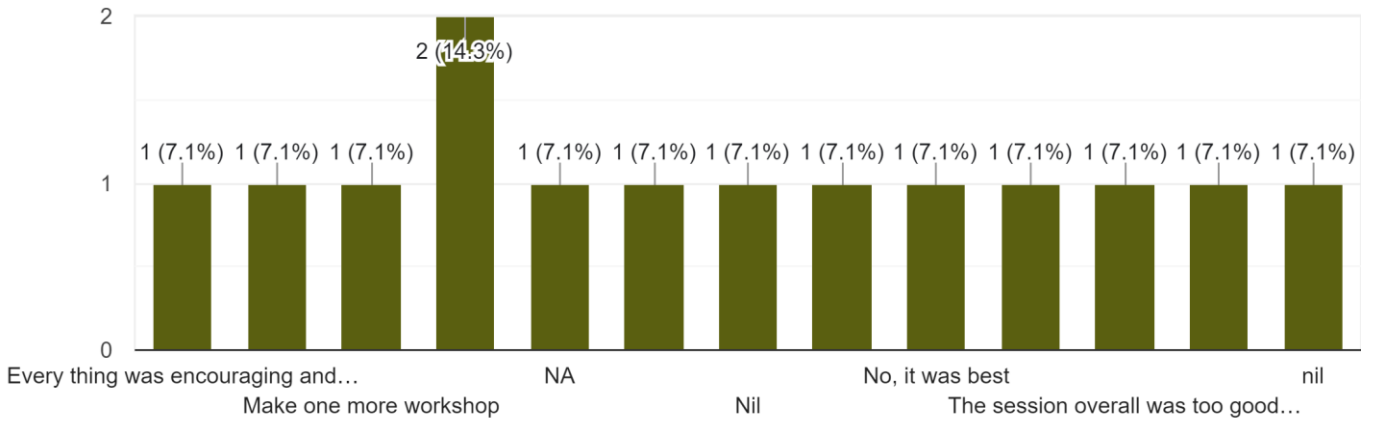
37 responses





Any additional comments regarding the sessions or overall agenda?

14 responses



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 Deemed University
 (Declared under Distinct Category by Ministry of Education, Government of India)
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

WORSHOP ON

FROM CLASSROOM TO CAREER : DSA WITH JAVA, TAUGHT BY INDUSTRY PROFESSIONALS(PROS)

DETAILS

VENUE: SH 7

TIMING : 4pm to 6pm

HARD COPY CERTIFICATES FOR ALL

NO REGISTRATION FEE

Convener:
Dr.Manish Dixit
Prof & Head
CSE DEPT.

Coordinator:
Prof.Smita Parte
Prof.Mahesh Parmar



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"The Empowering Coding Excellence workshop organized by the Department of Computer Science and engineering, aims to ignite a legacy of innovation and expertise in Data Structures and Algorithms (DSA) with Java. Led by seasoned industry professionals, this comprehensive workshop will equip participants with the skills to tackle complex coding challenges and harness the power of Java. Through interactive sessions, hands-on exercises, and real-world applications, participants will develop a profound understanding of DSA concepts and their industry relevance. As we strive for coding excellence, we honor the spirit of determination and perseverance that defines our nation's progress. Join us in this transformative journey, where technology meets passion, and innovation knows no bounds.

Let's code a brighter future, fueled by knowledge, creativity, and the unwavering pursuit of excellence."

Prof. Mahesh Parmar
(Workshop Coordinator)

Dr. Smita Parte
(Workshop Coordinator)

Dr. Manish Dixit
(Prof. & Head)