



Activity Report on

“ISTE Approved 6 Days STTP on Fundamental of Object Oriented Programing”

- **Title of the Program:** - 6 Days Short Term Training Program (STTP) on **Fundamental of Object Oriented Programing.**
- **Organized by:** - Department of Computer Science & Engineering, MGI-COET, Shegaon.
- **Date :-** 23rd June 2025 to 28th June 2025
- **Time:** 11:00 AM to 5:00 PM
- **Approved by :-** Indian Society for Technical Education (ISTE)
- **Venue:** - Room No.131, First Floor, MGI-COET, Shegaon, Maharashtra.
- **Duration :-** 6 Days
- **Audience:-** Students (60) and Faculty (3) Total= 63
- **Mode :-** Offline
- **Instructor:** 1) Mr. Rahul Salunkay (Founder, RS Softech Pvt.Ltd,Pune)
2) Mr. Dattatray Dudhamogre (Technical Head, RS Softech Pvt.Ltd, Pune)
3) Mr. Yuvraj Vairajar (Technical Trainer, RS Softech Pvt.Ltd, Pune)

Objective of the Training Program

The objective of "**Fundamental of Object Oriented Programing**" is to learn how to implement Object Oriented Programing concepts like syntax, data types, control flow, and object-oriented principles (classes, objects). This foundational knowledge enables them to write, compile, and execute simple Java programs, laying the groundwork for more advanced software development.

Overview of the Program

The Overview of Basics of object oriented programing is useful for the designing of desktop and web applications cover foundational concepts essential for building software. This includes. It also delves into the core principles of Object-Oriented Programming (OOP) like classes, objects, inheritance, polymorphism, abstraction, and encapsulation. This knowledge allows for writing simple, executable Java programs.



Late Purushottam Hari (Ganesh) Patil Shikshan Sanstha's
Mauli Group of Institution's,
College of Engineering & Technology, Shegaon.
Department of Computer Science & Engineering
Session: 2025-2026



Program Details

Circular or Brochure: -



ISTE Chapter
Organising
One Week Short Term Training Program(STTP)
on
“Fundamental of Object Oriented Programming”
from
Date: 23/06/2025 to 28/06/2025
Venue: Classroom No.131
Name of Resource Person: Mr. Dattatray Dudhamogre
(RS Softech Pvt.Ltd,Pune)



Session Highlights

Day 1: Introduction to Fundamental of Object Oriented Programing

- What is OOP? History, features (platform independence, OOP), and its applications (web, mobile, enterprise).
- Java Development Kit (JDK), Java Runtime Environment (JRE), and Java Virtual Machine (JVM): Understanding their roles.
- Setting up the Development Environment:** Installing JDK, configuring environment variables, choosing an IDE (like Eclipse or IntelliJ IDEA) or using a simple text editor with command line compilation.
- First Java Program ("Hello World"):** Writing, compiling (`javac`), and running (`java`) a basic program.
- Basic Java Syntax: Comments, keywords, identifiers.
- Variables and Data Types: Primitive data types (int, double, boolean, char), declaring and initializing variables.
- Operators: Arithmetic, relational, logical, assignment operators.

Day 2: Control Flow

- Input and Output: Using `Scanner` class for user input, `System.out.println ()` for output.
- Conditional Statements: `if`, `else if`, `else` statements for decision-making.
- `switch` statements for multiple choices.
- Looping Constructs:
 - `for` loop for definite iterations.
 - `while` loop for indefinite iterations.
 - `do-while` loop (guaranteed at least one execution).
 - `break` and `continue` statements to control loop flow.



Day 3: Arrays and Methods

- Arrays
- Declaring and initializing one-dimensional arrays.
- Accessing and manipulating array elements.
- Introduction to multi-dimensional arrays (e.g., 2D arrays).
- Methods (Functions):
- Defining and calling methods.
- Parameters and return types.
- Method overloading (same method name, different parameters).
- Understanding the concept of `main` method.

Day 4: Object-Oriented Programming (OOP) Fundamentals- Part 1

- Introduction to OOP: Concepts like objects, classes, abstraction, encapsulation, inheritance, and polymorphism.
- Classes and Objects:
- Defining classes (blueprint for objects).
- Creating objects (instances of classes).
- Instance variables (attributes) and instance methods (behaviors).



Day 5: Object-Oriented Programming (OOP) Fundamentals - Part 2

- Inheritance:
- Extending classes (`extends` keyword).
- `Super` keyword.
- Method overriding.
 - Types of inheritance (single, multilevel, hierarchical).
- Polymorphism:
 - Compile-time polymorphism (method overloading - covered on Day 3, revisited).
 - Runtime polymorphism (method overriding).
- Abstraction:
 - Abstract classes and abstract methods.
- Interfaces: Defining contracts.
- Encapsulation

Day 6: Exception Handling and Introduction to Collections

- Exception Handling:
 - Understanding errors and exceptions.
 - `try`, `catch`, `finally` blocks.
 - `throw` and `throws` keywords.



6 Days STTP Highlights





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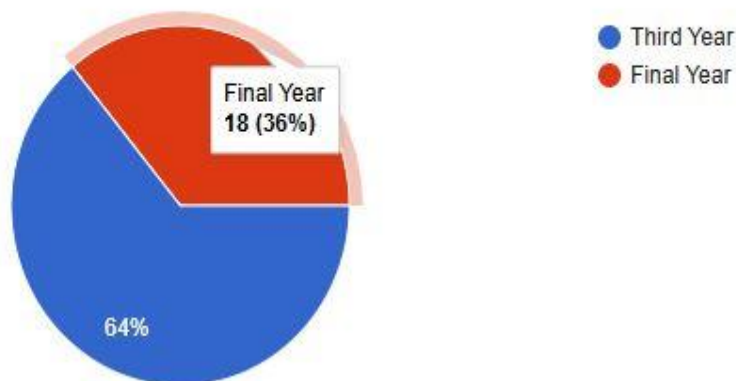


Quiz of Participant at the end of STTP

Class

50 responses

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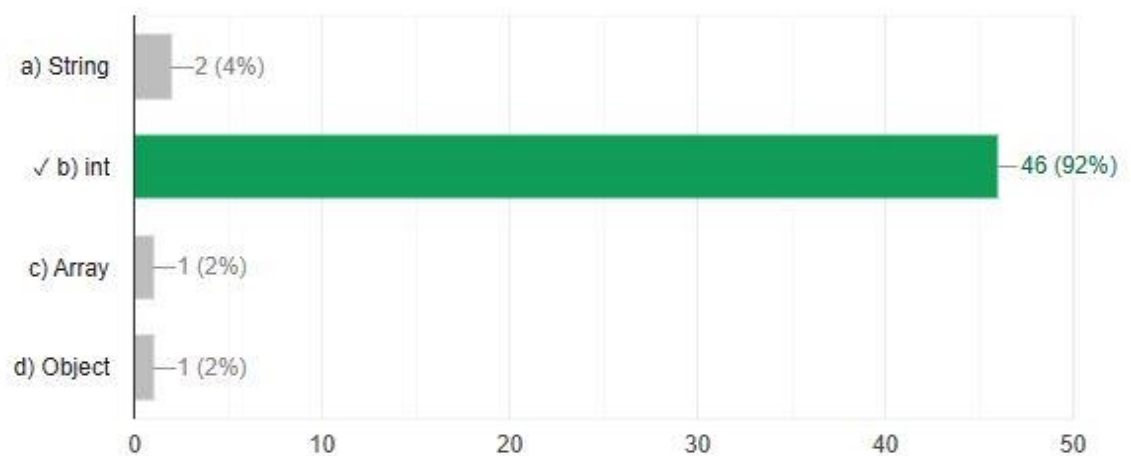


MCQ TEST

1. Which of the following is a primitive data type in Java?

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46 / 50 correct responses

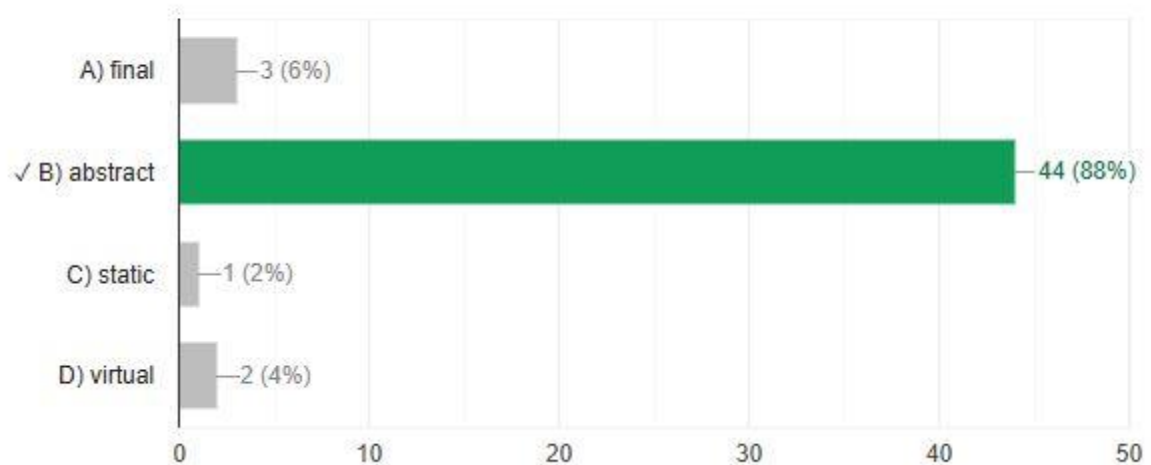




2. Which of the following keywords is used to define an abstract class?

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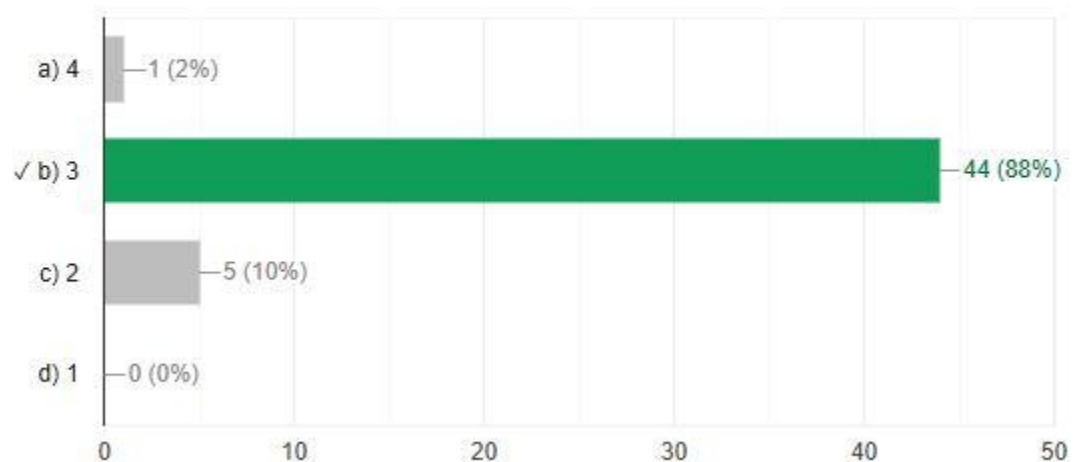
44 / 50 correct responses



3. How many types of access specifiers are provided in OOP (C++)?

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44 / 50 correct responses

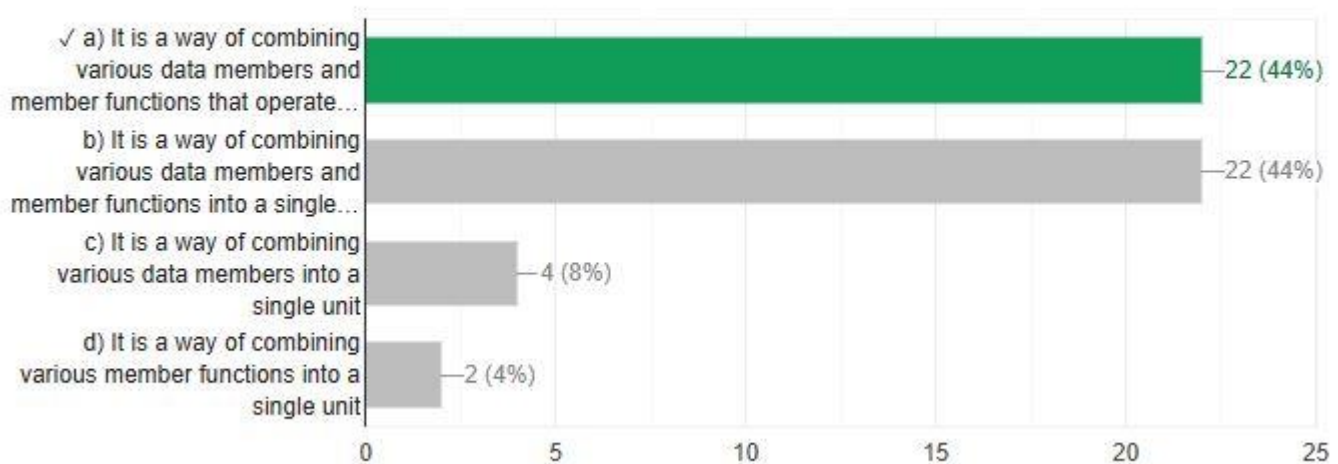




4 What is encapsulation in OOP?

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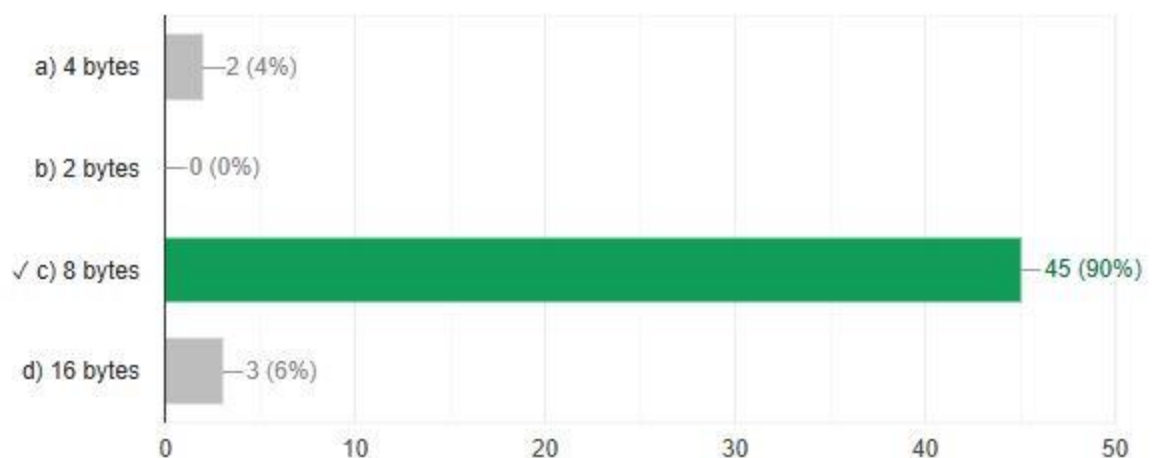
22 / 50 correct responses



5. What is the size of a double data type in Java?

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45 / 50 correct responses

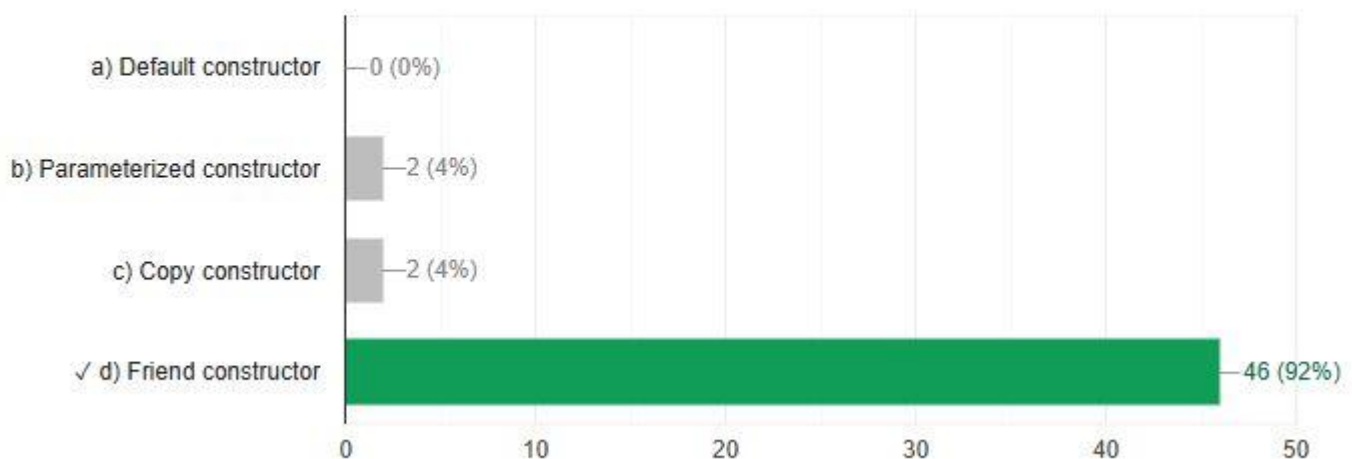




6. Which of the following is not a type of Constructor in C++?

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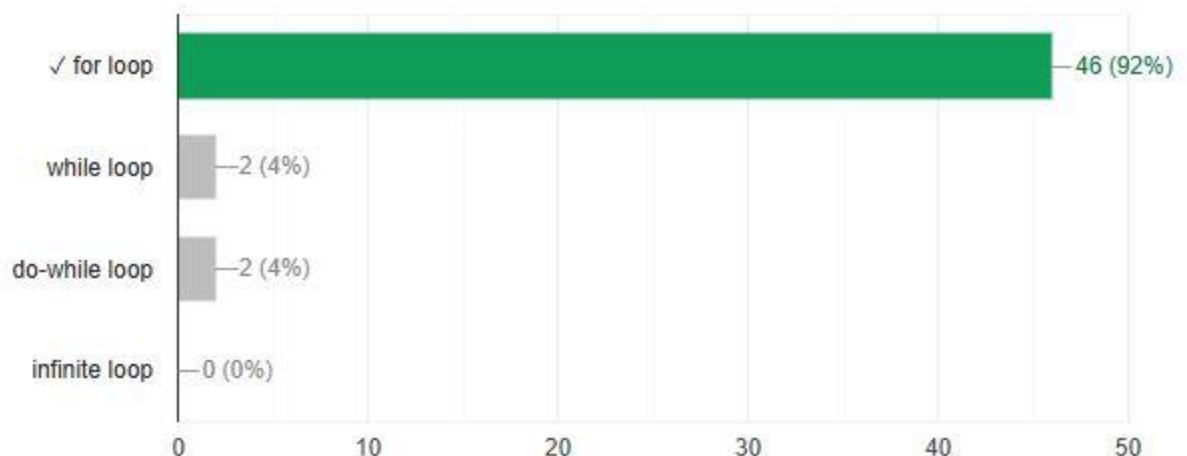
46 / 50 correct responses



7 Which loop is best suited when the number of iterations is known in advance?

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46 / 50 correct responses

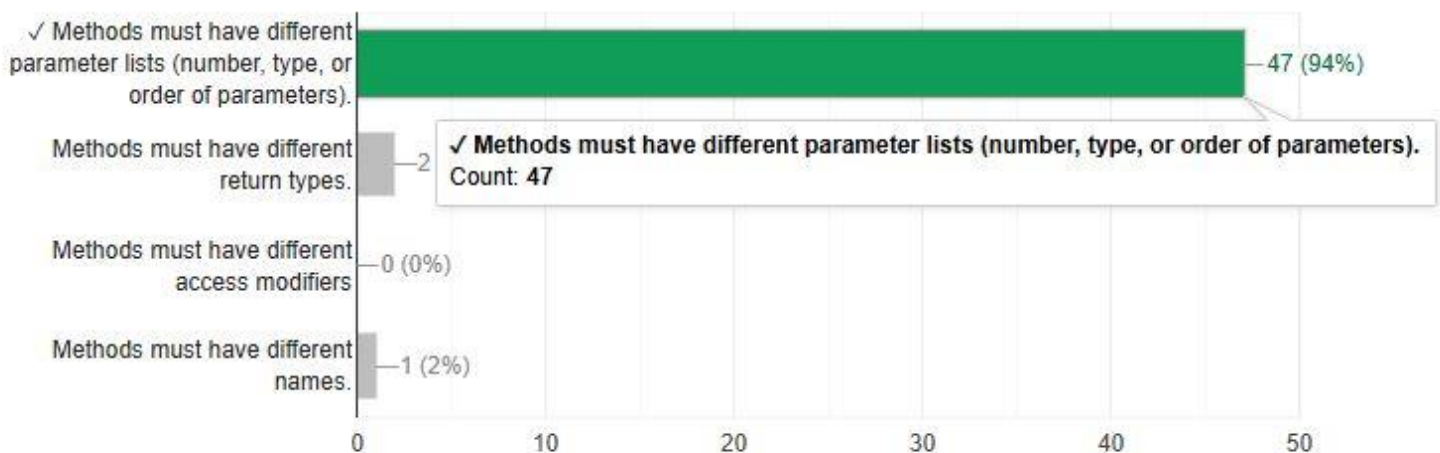




8 Which of the following is true about method overloading in Java?

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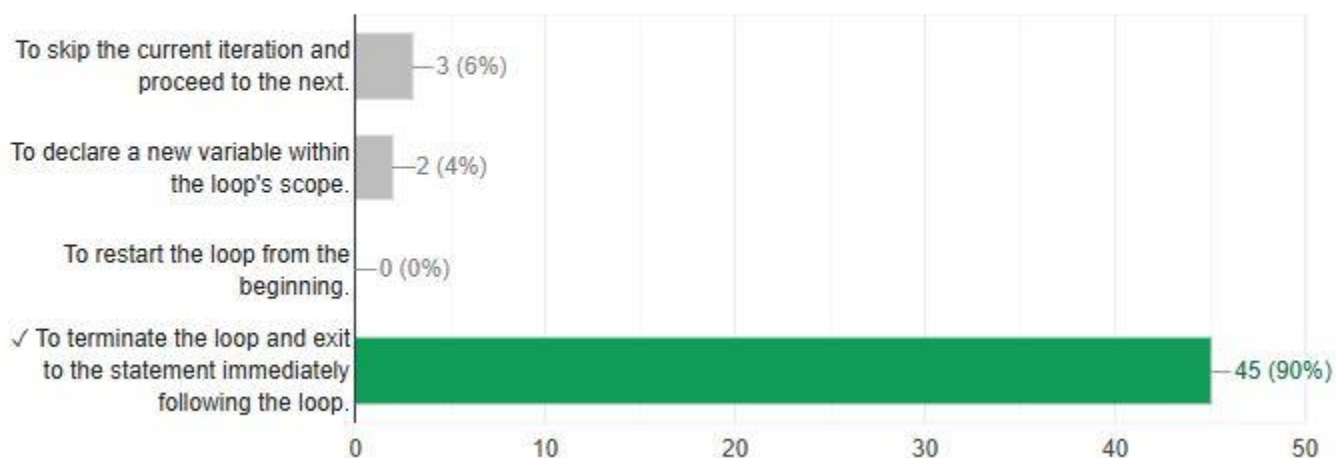
47 / 50 correct responses



9. What is the purpose of the `break` statement in a loop?

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45 / 50 correct responses

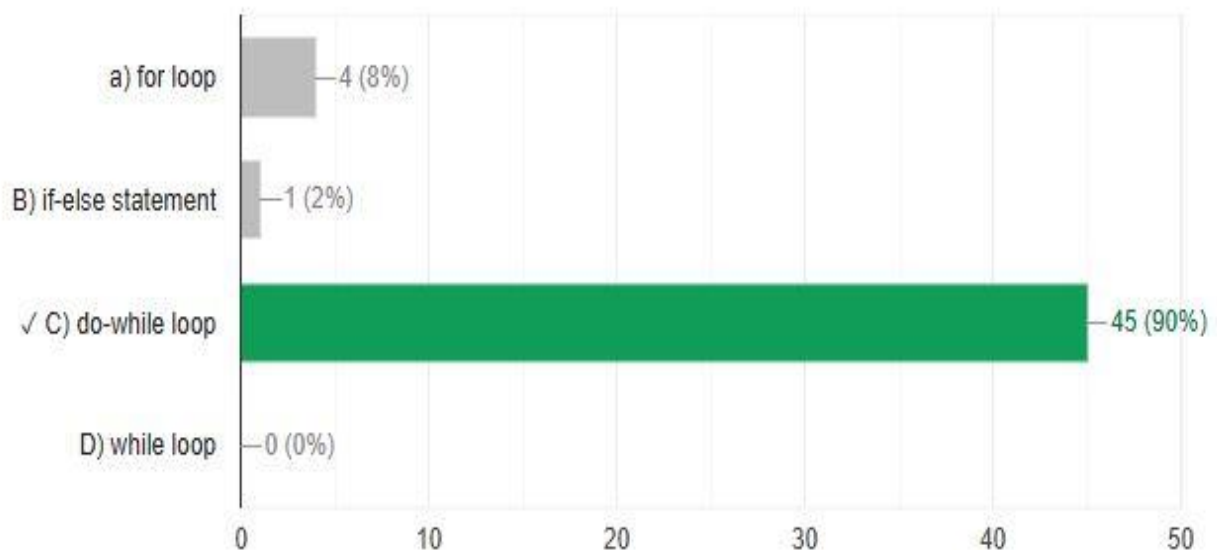




10. Which of the following loops guarantees to execute its body at least once?

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45 / 50 correct responses





Feedback and Suggestions

Participants expressed high satisfaction with the quality of the sessions and the depth of content covered. They appreciated the practical sessions, which allowed them to apply the theoretical knowledge gained during the lectures. The feedback indicated that the training program was a valuable learning experience and would be beneficial for future research and teaching initiatives.

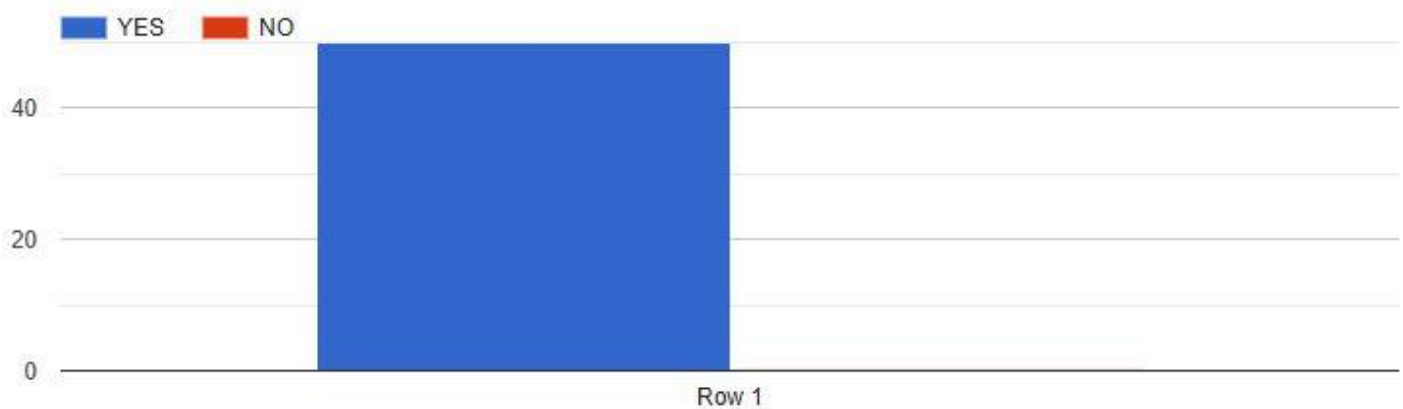
Suggestions for future programs included:

- Providing more time for practical hands-on work.
- Expanding the scope to cover more advanced topics like Swing, Applets.

Feedback on STTP

1. Was the training easy to understand and follow

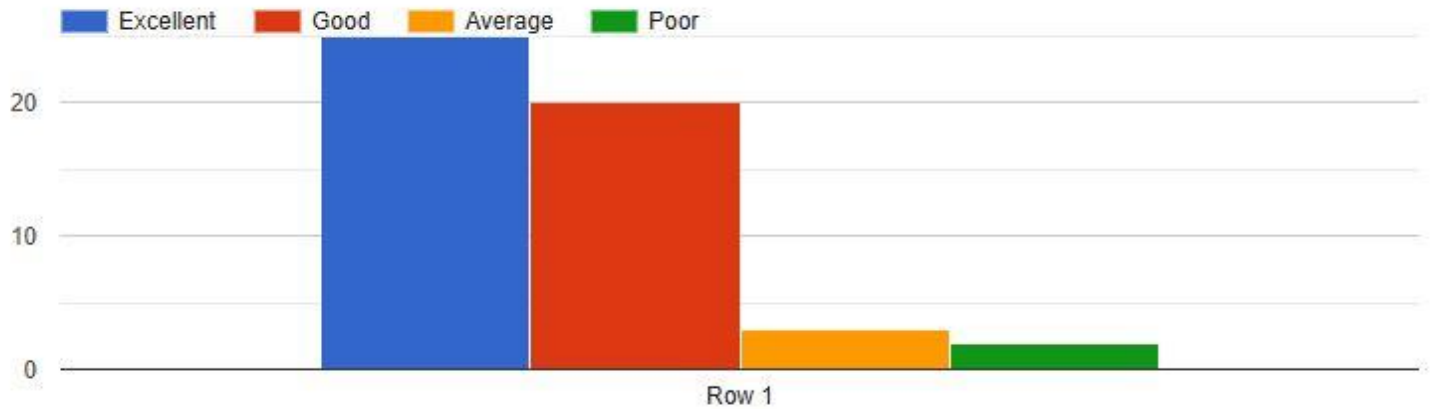
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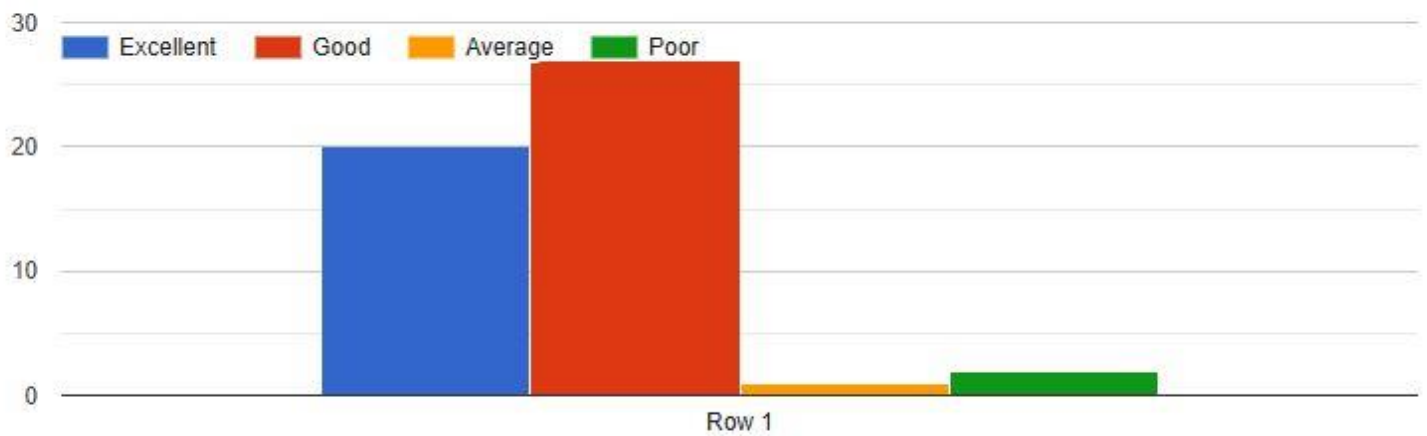
2.How would you rate the overall content of the STTP?

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3.How relevant was the content of the STTP?

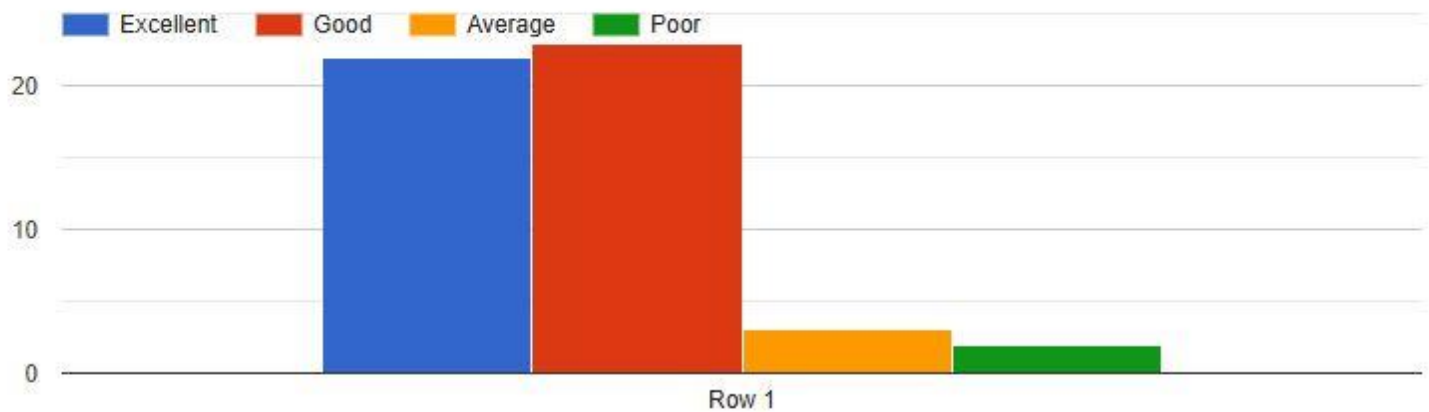
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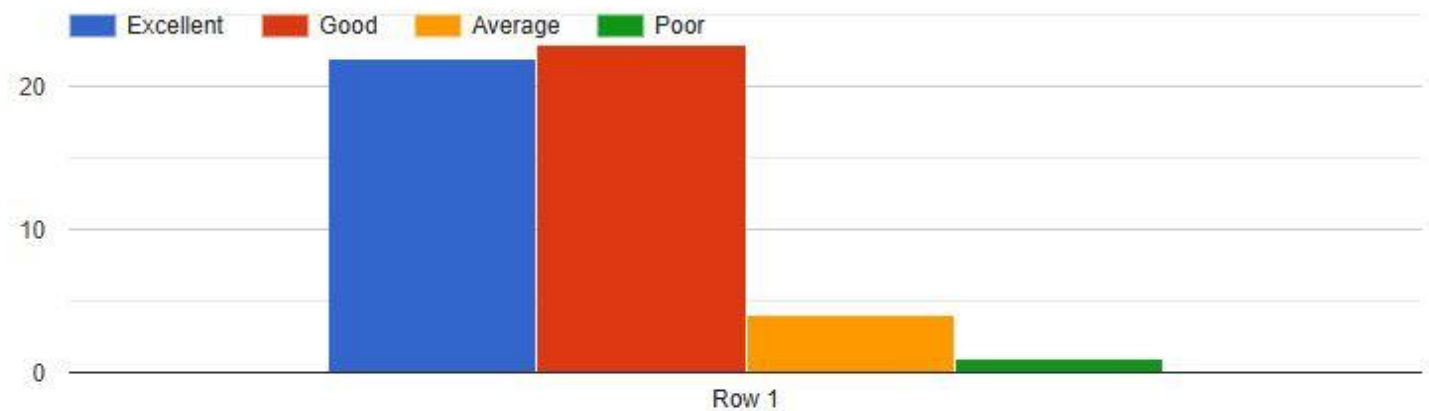
4.How Engaging and clear were the Instructors in their Explanations?

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5.Overall how you are Satisfied with the STTP?

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6. Do you have any suggestions for improving the training?

Training is already very good

No

Nothing everything is fine

No suggestion

No Suggestions

It was overall good. No suggestions



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Program Outcomes

By the end of the 6-day program, participants gained:

- "Participants gained a foundational understanding of Fundamental of Object Oriented Programing."
- "Participants gained proficiency in the core concepts of Object Oriented Programing."
- "Participants gained practical skills in Java programming for developing basic applications."
- "Participants gained the ability to write, compile, and run Java programs."
- "Participants gained an understanding of object-oriented programming".

Prof. N.P. Tambat
ISTE Coordinator

Dr. C. M. Jadhao
Principal
MGI-COET, Shegaon
PRINCIPAL
Mauli Group of Institutions
College of Engineering &
Technology, Shegaon





RAHUL INGLE



List of Faculty Development Program / Details

FUNDAMENTAL OF OBJECT ORIENTED PROGRAMME

APPROVED

Name and Address of Host Institution**Name:**M. G. OF INSTITUTION'S
COLLEGE OF ENGG. &
TECH.**Email:**

rahul4ingle@gmail.com

Phone:

9730752607

City:

DIST. BULDHANA

State:

MAHARASHTRA

Pin Code:

444203

Address:

KHAMGAON ROADSHEGAON-

Incharge Details**First Name:**

DR. C. M. JADHAO

Last Name:

Jadhao

Designation:

Professor

Email:

dr.rahulingle@gmail.com

Mobile Number:

9730752607

Program Details**Intended For:**

Student and Teachers

Specialization:

Computer Science

Course Type:

Subject updating course

Programme Duration:

One week

Proposed**: Proposal covered categories:****Dates(From-To)**6/23/2025 -
6/28/2025Industry-based programmes with substantial involvement of
industry and its experts

Do you have enough expertise within your institute and neighbouring places to offer the course satisfactorily :

No

Name Of Subject Expert



Mr Purnaj Vairaj

Dudhamogre

Mr Dattatray
Dudhamogre

Mr Rahul Salunkay

Course Coordinators

Details	Coordinator 1	Coordinator 2
Name	Prof N P Tambat	Prof S A Yadgire
Designation	Assistant Professor	Assistant Professor
Address	Shegaon	Shegaon
Telephone	08275027897	09970939431
Mobile	8275027897	9970939431
Email	nilesh.tambat@gmail.com	swatiyadgire23@gmail.com
Highest Qualification	MPhil	M E
Area Of Specialization	Computer Science	Computer Engineering
Teaching Experience(Years)	13	5
Industry Experience(Years)	2	0
Total Paper Published	5	4
Total Short Term Courses Attended	2	2
Total Short Term Courses Conducted	0	0

Course Details



Course Content/Coverage

Topic	Duration	Subject Expert
Intoduction to OOP	2	Mr Yuvraj Vairajar
OOP Basics	4	Mr Rahul Salunkay
OOP Concepts	4	Mr Dattatray
Exception Handling	4	Mr Yuvraj Vairajar
Multithreading	4	Mr Dattatray

Course Schedule

Total Working Days	Lecture(hrs)	Practical(hrs)	Visits(hrs)	Others(hrs)	Total Enga
6	20	20	2	3	45

Details of special equipment or laboratory facilities available for the course

Computer

Collaboration with Regulating Authority / Department

Organization	Nature Of Collaboration	Expert Name	Area Of Expertise
R S Softech PVT	MOU	Mr Yuvraj Vairajar	Programming

Details of Course Faculty

Name	Designation	Institute	Highest Qualification	Specialization
Yuvraj Vairajar	Trainer	R S Softech PVT	M E	Programming



Institute Membership and Chapter Details

IM Certificate

Membership Number	Certificate
2194	View Download

Does your institution have an ISTE Faculty Chapter : Yes

Chapter Certificate

Chapter Number	Certificate
MAH 204	View Download

Certified By Coordinator

Name: Place: Date: Signature:
Prof N P Tambat SHEGAON 6/21/2025 [View](#) [Download](#)

Certified By Principal

Name: Place: Date: Request Letter:
Dr C M JADHAO SHEGAON 6/21/2025 [View](#) [Download](#)

Signature:
[View](#) [Download](#)