



## **Sandip Institute of Technology and Research Centre**

At & Po – Mahirawani, Trimbak Road, Tal & Dist. – Nashik

Phone: (02594) 222552, 53, 54, Fax: (02594) 222555

Website: [www.sandipfoundation.org](http://www.sandipfoundation.org), e-mail: [principal@sitrc.org](mailto:principal@sitrc.org)

(Approved by-AICTE, New Delhi, & Govt. of Maharashtra and Permanently Affiliated to Savitribai Phule Pune University (Formerly Pune University), Pune.

Accredited with “A” grade by NAAC With CGPA Score of 3.11



**SANDIP**  
FOUNDATION



# **Activity Report**

## **Of**

### **Five Days Workshop**

## **On**

# **“Basic & Advanced Java Programming”**

**(3<sup>rd</sup> October to 7<sup>th</sup> October 2023)**

**Organized by  
Department of Information Technology  
Sandip Institute of Technology and Research  
Centre**

**Name of Program:** Five Days Hands on Workshop on “Basic & Advanced Java Programming”

**Date:** 3<sup>rd</sup> October to 7<sup>th</sup> October 2023

**Resource Person:** Mr. Onkar Waghmare

**Event Co-ordinator:** Prof. Megha Singru (Asst. Professor, SITRC)

**Participants:** BE Students (IT Department)

**Venue:** Computer Department, Seminar Hall (C Building)

**Aim:**

The aim of this workshop organized for students is to provide the foundations of the practical implementation and usage of Java Programming. This workshop introduces fundamental concepts & recent advances of Java Programming which in turn help students to apply it in practice and further load the foundation to a deeper study in this area.

**Objective:**

- 1) To acquire programming skills in Core & Advance Java.
- 2) To acquire Object oriented skills in Java.
- 3) To acquire knowledge of application in Java.

The objective of this workshop is to provide opportunity for students to enrich their knowledge in the area of Object Oriented Programming using JAVA Language. This workshop will provide a vibrant opportunity for students in the recruitment phase and to enhance their programming skills. This course is based on hands-on exercises and is focused on developing Programming and Logical skills.

## Objective: Day wise

<b>Day 1:</b>	<b>Introduction</b> Programming language Types and Paradigms, Computer Programming Hierarchy, How Computer Architecture Affects a Language? , Why Java? Flavors of Java, Java Designing Goal, Role of Java Programmer in Industry, Features of Java Language, JVM –The heart of Java, Java’s Magic Byte code. <b>The Java Environment:</b> Installing Java, Java Program Development, Java Source File Structure, Compilation, Executions. <b>Basic Language Elements:</b> Lexical Tokens, Identifiers, Keywords, Literals, Comments, Primitive Data types, Operators Assignments.
<b>Day2:</b>	<b>Object Oriented Programming</b> Class Fundamentals , Object & Object reference , Object Life time & Garbage Collection, Creating and Operating Objects , Constructor & initialization code block, Access Control, Modifiers, methods Nested , Inner Class & Anonymous Classes ,Abstract Class & Interfaces Defining Methods. <b>Extending Classes and Inheritance</b> Use and Benefits of Inheritance in OOP, Types of Inheritance in Java, Inheriting Data members and Methods , Role of Constructors in inheritance , Overriding Super Class Methods ,Use of “super” , Polymorphism in inheritance ,Type Compatibility and Conversion Implementing interfaces.
<b>Day 3:</b>	<b>Package</b> Organizing Classes and Interfaces in Packages, Package as Access Protection, Defining Package, CLASSPATH Setting for Packages, Making JAR Files for Library Packages Import and Static Import Naming Convention For Packages. <b>Exception Handling:</b> The Idea behind Exception ,Exceptions & Errors ,Types of Exception ,Control Flow In Exceptions, JVM reaction to Exceptions ,Use of try, catch, finally, throw, throws in Exception Handling ,In-built and User Defined Exceptions, Checked and Un-Checked Exceptions.
<b>Day 4:</b>	<b>Array &amp; String :</b> Defining an Array, Initializing & Accessing Array, Multi –Dimensional Array, Operation on String, Mutable & Immutable String, Using Collection Bases Loop for String, Tokenizing a String, Creating Strings using String Buffer.
<b>Day 5:</b>	<b>Thread :</b> Understanding Threads, Needs of Multi-Threaded Programming, Thread Life-Cycle, Thread Priorities, Synchronizing Threads, Inter Communication.

**Outcomes:**

- 1) Explained basic principle of Java Programming
- 2) Implemented object oriented concepts
- 3) Understands the case studies related to Java
- 4) Build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions

**Feedback from Students:**

In this workshop the students were introduced to topics in JAVA Programming. Students got an idea how to write and run JAVA Program, All the students really appreciated the contents that were discussed, and they realized that interactions like these can help them improve their learning. Students showed keen interest in attending more workshops like this in future.

## Event Photographs:





GPS Map Camera



Google

नाशिक, महाराष्ट्र, India  
z, महाराष्ट्र 422213, India  
Lat 19.964468°  
Long 73.667838°  
04/10/23 11:22 AM GMT +05:30

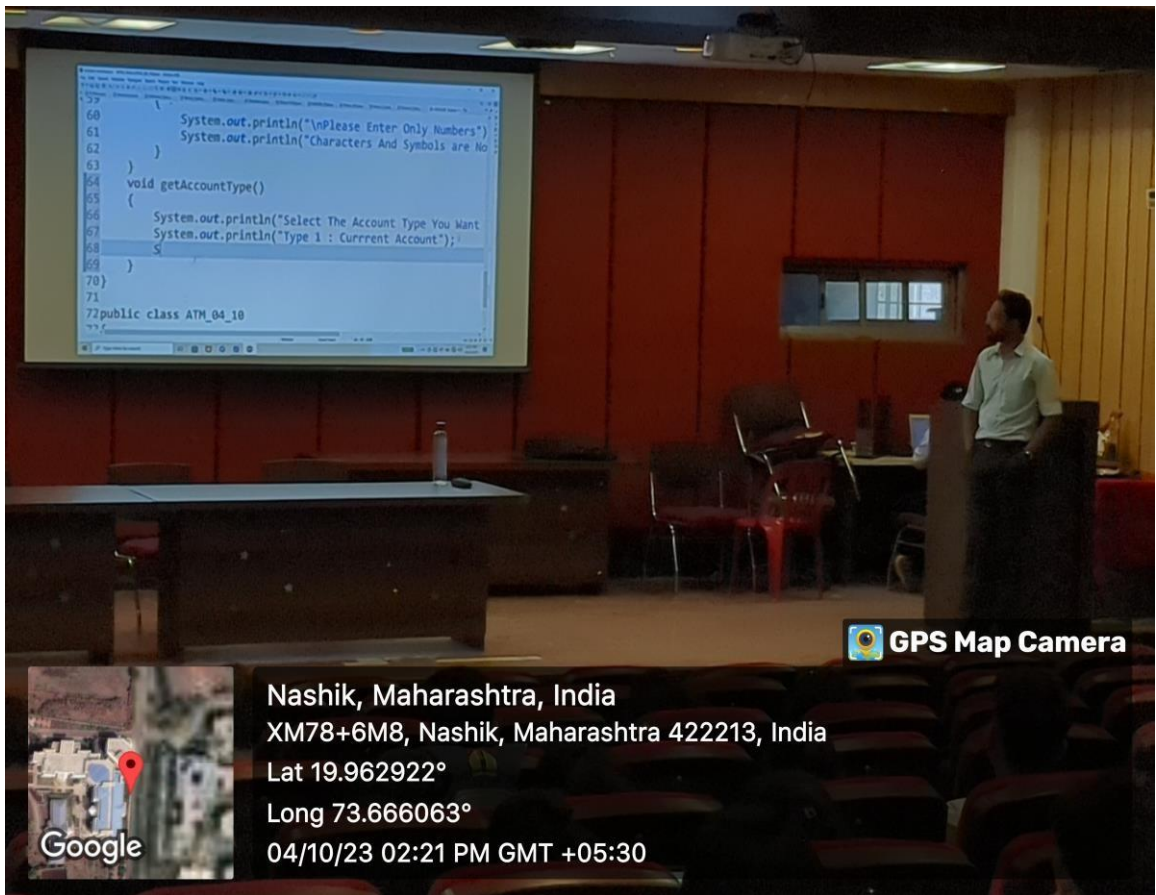


GPS Map Camera



Google

नाशिक, महाराष्ट्र, India  
z, महाराष्ट्र 422213, India  
Lat 19.964477°  
Long 73.667824°  
04/10/23 11:39 AM GMT +05:30



## **Summary report of workshop on “Basic and Advance Java Programming”**

To introduce fundamental and advanced concepts & recent development in Java Programming which helps students to apply practically, department of Information Technology Of Sandip Foundation’s Sandip Institute Of Technology & Research Centre has organized a five days technical workshop on “basic and advance java programming” from 3<sup>rd</sup> Oct 2023 To 7<sup>th</sup> Oct 2023. This workshop was started with felicitation of Mr. Onkar Waghmare. To attend this, many students from Information Technology department were present.



VALUE ADDED PROGRAM

Feedback Form

Name of Institute	SITRC
Name of Programme	Hands-On-Workshop on Basic & Advance JAVA Prog.
Name of Student:-	Abhishek Aakash Singh

Div:- -

Roll No:- 70

Sr. No	Parameter	Please Mark yours choice in block				
		1	2	3	4	5(Excellent)
1	Punctuality					✓
2	Expertise					✓
3	Clariaty of communication					✓
4	Problem Solving ability					✓
5	Co-ordination					✓
6	Understanding by the student					✓
7	Quality of learing material				✓	
8	Value addition from Course				✓	

Suggesation to Value Added Couce: None

VALUE ADDED PROGRAM

Feedback Form

Name of Institute	SITRC
Name of Programme	Hands-On-Workshop on Basic & Advance JAVA Prog.
Name of Student:- Aniket Hari Shewale	

Div:- —

Roll No:- 68

Sr. No	Parameter	Please Mark your choice in block				
		1	2	3	4	5(Excellent)
1	Punctuality				✓	
2	Expertise					✓
3	Clarity of communication					✓
4	Problem Solving ability					✓
5	Co-ordination				✓	
6	Understanding by the student					✓
7	Quality of learning material				✓	
8	Value addition from Course					✓

Suggestion to Value Added Couce: none

**Sandip Foundation's  
Sandip Institute of Technology and  
Research Technology, Nashik**

**NAAC A Accredited**

**Certificate of Appreciation**

This is to certify that,

**Abhishek Sinha**



has participated and successfully completed Five Days workshop on “**Basic & Advanced Java Programming**” organized by **Department Of Information Technology, SITRC, Nashik**. The duration of programme was from 3<sup>rd</sup> OCT 2023 to 7<sup>th</sup> OCT 2023.

A handwritten signature in black ink, appearing to be 'A. Gaidhani'.

**Prof. Abhay Gaidhani**  
**HOD, IT dept., SITRC**

A handwritten signature in blue ink, appearing to be 'M.M. Patil'.

**Prof. (Dr.) M.M. Patil**  
**Principal, SITRC, Nashik**



# Hands-On-Workshop on Basic & Advance JAVA Programming

by **Mr. Onkar Waghmare**

- ✓ Date:- 3rd Oct to 7th Oct 2023
- ✓ Venue :- C Building-Seminar Hall ,  
Computer Engg. Dept, SITRC
- ✓ Time :- 10am to 5pm Daily



Date: 30/09/2023

To,  
Mr. Onkar Waghmare  
GTT Foundation Pune.

Subject – Invitation Letter for Basic & Advanced Java Programming Workshop.

Greetings from Sandip Foundation's Sandip Institute of Technology & Research Centre, Nashik.

We are pleased to invite you as an Expert for the workshop on “Basic & Advanced Java Programming” proposed on 3<sup>rd</sup> OCT 2023 to 7<sup>th</sup> OCT 2023. Please accept the invitation and grace the session with your presence.



Thanks, and Regards,

Prof. Abhay Gaidhani

HOD – Information Technology Department

Sandip Institute of Technology and Research Centre,

Mahiravani, Nashik-422 213

Date: 07/10/2023

To,  
Onkar Waghmare  
GTT Foundation  
Pune.

Subject: Letter of Appreciation

Dear Sir,

Thank you very much for delivering an informative and thought provoking lecture as a Guest Speaker on "Five Days Technical Workshop on Basic & Advanced java Programming" held from 3<sup>rd</sup> OCT 2023 to 7<sup>th</sup> OCT 2023 at Department of Information Technology, Sandip Institute of Technology and Research Centre, Nashik. It was really a splendid presentation which exposed students to field practices. All students appreciated and got benefited from your views on the subject. Looking forward for your co- operation for the promotion of professional education in future as well.



Thanks & Regards,

Mr Abhay Gaidhani

HOD - Information Technology Department  
Sandip Institute of Technology and Research Centre,  
Mahiravani, Nashik-422213



Prof M.C. Singru

(Event coordinator)



Prof. A.R. Gaidhani

(Hod IT dept.)



Dr. M. M. Patil

(Principal)



