



Shanti Education Society's

A. G. PATIL INSTITUTE OF TECHNOLOGY, SOLAPUR

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(NAAC Accredited – "B+" Grade)

Report on

Java Programming Training for TY Students

From 03/08/2020 to 17/08/2020

Held at

A.G.Patil Institute of Technology, Solapur



Organized by

Training and Placement Department

REPORT Training on Java Programming

From 03/08/2020 to 17/08/2020

With the blessings of AGPIT Management, having constant encouragements of our TPO Prof. S.V.Patil, Training on java programming was conducted. Following schedule and the topic:

Topic: “Training on java programming”

Date: 03/08/2020 to 17/08/2020

Resource person: Mr. Adinath Giri , MD GIRI’S Tech Hub, Pune

Time: 10:00am to 05:00pm.

Duration of the Training: 105 hrs

About the speaker: Mr. Adinath Giri is the MD of MD GIRI’S Tech Hub, Pune

Program: For this session, registration link using Google Meet was created. The link was circulated among students Computer Engineering department. Total 31 Students have participated. At the end of the session questions were given for the assessment. All 31 students have successfully completed the test.

CORE JAVA

INTRODUCTION

1. Why Java
2. Paradigms
3. Diff b/w Java & Other (C,C++)
4. Java history
5. Java features
6. Java programming format
7. Java Tokens
8. Java Statements
9. Java Data Types
10. Typecasting
11. Arrays

OOPS

1. Introduction
2. Class
3. Object
4. Static Keywords
5. Constructors
6. This Key Word
7. Inheritance
8. Super Key Word
9. Polymorphism (Over Loading & Over Riding)
10. Abstraction
11. Encapsulation
12. Abstract Classes
13. Interfaces

STRING MANIPULATIONS

1. String
2. String Buffer
3. String Tokenizer

PACKAGES

1. Introduction to all predefined packages
2. User Defined Packages
3. Access Specifiers

EXCEPTION HANDLING

1. Introduction
2. Pre Defined Exceptions
3. Try-Catch-Finally
4. Throws, throw
5. User Defined Exception examples

MULTITHREADING

1. Introduction
2. Thread Creations
3. Thread Life Cycle
4. Life Cycle Methods
5. Synchronization
6. Wait() notify() notify all() methods

I/O STREAMS

1. Introduction
2. Byte-oriented streams
3. Character – oriented streams
4. File
5. Random-access file
6. Serialization

NETWORKING

1. Introduction
2. Socket, Server socket
3. Client –Server Communication

WRAPPERCLASSES

1. Introduction
2. Byte, Short, Integer, Long, Float, Double, Character, Boolean classes.

COLLECTION FRAME WORK

1. Introduction
2. Util Package interfaces, List, Set, Map
3. List interface & its classes
4. Set interface & its classes
5. Map interface & its classes

INNER CLASSES

1. Introduction
2. Member inner class
3. Static inner class
4. Local inner class
5. Anonymous inner class

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A.G.Patil Institute of Technology, Solapur

Training and Placement Cell

Internship Training Program on "Java Programming"

Class: Third Year Branch: Computer Engineering

List of registered students

Sr.No.	Name	Email Id's	Mobile No.	17.08.2020
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/*
What is the java ?

java is object oriented programming language

Q.what is the object oriented ?

it is concept of programming.
or
it is standard methodology of programming

note: java is not object oriented

if we think
java is programming language which implement the object oriented programming concept
so we can say it is object oriented.

if we want to work with java we should have to know how to create the application in java

1) installed the jdk

Q.what is the jdk ?

java development kit :

def : it is group of software or jdk is software cluster which contain the some software tools which help us to provide the environment for create and execute application like as compiler,jvm etc

Q.what is the compiler ?

compiler is software
which is used for convert the source code to, the byte code in java.

what is the byte code ?

byte code is intermediary code which easily convert in machine code with the help of jvm

2) create the sample application

if we want to create the any application in java we have the generalize format

```
access specifier class classname
{
    public static void main(String x[])
    {
        //write here logics of application .
    }
}
```

e.g
public class First
{
 public static void main(String x[])
 {
 System.out.println("Good Afternoon");


```
}  
}
```

public class First

public is access specifier

what is the access specifier ?

access specifier are the some keywords apply the restriction on class and its member.

class : is keyword for class declaration

First is classname and user can give the any name to his class.

public static void main(String x[]) :
it is main function of java same like as main function in c or c++

Q.why java main function is static ?

note: we will discuss this question classes and object chapter.

System.out.println("Good Afternoon");
it is output statement of java same like as printf() in c

meaning

System is class out is static reference of PrintStream class
System and PrintStream maintain the HAS-A relationship between them
println() is overloaded method for display the output on output screen.

note: we will discuss this meaning inheritance chapter.

3) save the application

if we want to save the program in java we need to save in bin folder where jdk installed
and give classname and filename same with .java extension.

4) compile the application

what is the compilation ?

compilation is process where we convert the source code to the byte code in java

what is the byte code ?

byte code is intermedator code which easily convert in machine code with the help of jvm

what is the benifit of byte code ?

the major benifit of byte code is it is platform independent

what is the platform ?

platform indicate the operating system.

means your byte code can execute on any operating system so we can say java is platform independent language

how to compile the program in java

steps

i) open the command prompt

start menu --> search --> command prompt --> copy the path where java file save

ii) go where java file save

```
C:\Users\Tech Hub>cd C:\Program Files\Java\jdk1.8.0_91\bin
```

iii) type the command `javac filename.java`

once your program get compiled then java compiler create the new file automatically with extension of `.class` and in this file contain your byte code

after compilation we have the two files

```
First.java  
First.class.
```

5) run the application

if we want to run the java application we have the command `java filename`

e.g `java First`

```
*/  
public class First  
{  
    public static void main(String x[ ])  
    {  
        System.out.println("Good Afternoon");  
    }  
}
```



Giri's
TechHUB

CERTIFICATE OF INTERNSHIP

This certificate is awarded to

Taur Rushikesh Dhanaji

Has Successfully Completed "15 Days Internship Program on JAVA "
at Giri's Techhub, Pune in association with A.G.Patil Institute of Technology , Solapur



Principal
A.G.P.I.T., Solapur



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