**Course 2 - Backend and Database Development**

**Day 1: 6 Dec 2024**

Java

Core Java or JSE (Java Standard Edition)

Basic Programming in Java

OOPs

Object, class, Encapsulation, Inheritance, Polymorphism, Abstraction

Static, abstract, final

Interface

Access specifiers, public, private, protected and default

Packages

Exception Handling

Multi threading Overview

Collection Framework (like Data structure)

JDBC (help to connect database like MySQL)

Using Java Web Application ie JEE (Java Enterprise Edition)

Servlet and JSP (Java Server pages) which help to create web application.

Java : Java is pure object oriented and platform independent programming language.

Java developed in Nov 1995. The initial name of java is Oak. James gosling and Team. It was belong to sun micro system but now part of Oracle.

Version

Java 1, 2, 4, 5,6,7,8 ,9,11,15,17,21,22 etc

Features of Java

1. Java is simple.
2. Compiler and interpreter
3. High secure
4. Platform Independent: write once and run anywhere.
5. Exception handling: handle error.
6. Multi threading : Multi tasking