Course 2 :					
Java					
Core Java or J2SE (Java Standard edition or desktop application).					
Basic Java Programming					
OOPs concept					
Packages and multi threading					
Collection framework					
Exception handling					
Maven -→ build tools.					
JDBC -→ it use to connect database ie MySQL					
JEE → Java Enterprise Edition : Servlet and .	<mark>JSP</mark>				
Using Servlet and JSP we can create backen connect database.	d technologies. With JDBC we can				
Frontend	Backend				
Angular	Java (Servlet / JSP) → MySQL				
Or	.net				
React JS	python				
Or	Node JS				

Vue JS

Before Node JS to create backend side technologies we were depending upon other technologies like java, python, php, .net etc.

After node js using JavaScript we can create backend side technologies. No need to depending upon any other language.

Before node js JavaScript was known as client side scripting language. But after node js JavaScript also known as client side as well as server side scripting language.

MEAN Stack : MongoDb / MySQL Express (it is use to create Rest API),

Angular Node JS

MERN Stack: MongoDb / MySQL Express (it is use to create Rest API), React JS

Node JS

MEVN Stack: Vue JS.

## Java Full Stack

Python Full Stack

.net Full Stack

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

Java was developed in nov 1995. Initial name of java is Oak.

It was belong to sun micro system.

Now it is a part of Oracle.

Version 1.0, 2.0......22 Version

Java 8 is minimum version.

Java 11

Java 15

```
Java IDE
Eclipse IDE
Vs Code
My Eclipse
object :
                   any real world entity
like person, employee, customer, bank etc.
<mark>class :</mark>
             class is blue print of object or template of object.
Syntax of class.
class ClassName {
      variable
      methods like a functions.
      Main methods: it is entity of the application.
}
class Test {
      public static void main(String args[]) {
             System.out.println("Welcome to Java");
      }
}
                   converting ts to js
tsc demo.ts
javac Demo.java
                          it is use compile the program.
```

Data Types: Data type is a type of data which tells what type of data it can hold.

Variable: variable is name which hold the value.

Syntax to declare the data types

datatype variableName;

datatype variableName=value;

var a=10; in JS

let b:number = 20; in ts

id int=111; in java

In Java data types are divided into 2 types.

1. Primitive data types : it is use to store only value

2. Non primitive data type or reference data types: it is use to store value as well as reference of another data types.

Primitive mainly divided into 8 types.

a. byte 1 byte -128 to 127 byte age;

b. short 2 byte

c. int 4 byte int age

d. long 8 byte till here without decimal point.

e. float 4 byte

f. double 8 byte

with decimal number

g. char 2 byte

any single character

h. boolean 1 bit

true or false.

## Operators :

```
Arithmetic operator: +, -, *, /, %

Conditional operator: >, >=, <, <=, ==, !=

Assignment operator: =

Increment: ++, --
```

## If statement and switch statement

- 1. simple if
- 2. if else
- 3. if else if

```
switch statement system
int label=10;
switch(label) {
  case 1:block1;
      break;
  case 2:block2;
      break;
  case 3:block3;
      break;
  default : defaultblock;
      break;
}
```