**Day 1: 29 – July 2024 – Core Java**

Java is pure object and platform independent programming language.

Java 1.0 java 22

Till java 11 java is known open source programming language.

From 11 onward if we want to use for commercial purpose we need to purchase or we need to use openjdk.

From java 8 onward java also known as functional programming language because of lambda expression.

OOPs

object: any real world entity.

Property or state-🡪 have -🡪 fields or variable

Person

Behaviour -🡪do/does -🡪 function / methods

Car

Employee

Account

Product

class : blue print of object or template of object or user defined data type which help to create the object

class Test {

variable;

methods;

}

In java variable are divided into 3 types.

1. Instance variable: the variable which declare outside a method but inside a class is known as instance variable. It hold default value.
2. Local variable : variable declared inside a method is known a local. Doesn’t hold default value.
3. Static variable. The variable declared outside a method with static keyword is known as static variable. It hold default value.

Constructor : it is a type of special method which help to create the memory.

Pts

1. Constructor have same name as class itself.
2. No return type.
3. No need to call it will call automatically when we create the object.

Encapsulation : binding or wrapping data and code in a single unit is known as Encapsulation.