**Java Programming**

* 3 hari lupa 25%
* 2 minggu lupa 75%
* Practice makes perfect
* IONIC, React Native (Facebook), Flutter (Google) – write sekali boleh guna atas semua platform…all are free….nak belajar ni kena tau html, css, javascript…
  + Lawan dia adalah Android, Obj C (ios)
* Java-web-system
* Survey
  + **Tools yang diperlukan:**

1. JDK 8
2. Netbeans
3. MySQL (database)
4. SQLYog
5. GitBathch
6. GIT
   * Beza JDK dengan JRE
     + **JDK – Java Development Kit (for development)**
     + **JRE - Java Run Time Environment** (to run the system)…**JVM (Java Virtual Machine)** duduk dalam JRE and JVM is the **main engine**

**What is java**

Java is a general purpose, object-oriented programming language (OOP). “Write once, run anywhere” is the approach.

Sekali je compile boleh run mana platform.

(.java) is a file….compile jadi (.class)…next to **JVM (Java Virtual Machine)-**it’s the key, ada version window, linux, so this JVM is the compatible thing ….then to OS

.java

.class

JVM

OS

SunMicrosystems is the company… dulu famous sunservers….james goslin (father of Java)…he is the one who also works in Oracle so Java Sun dan Sun is the same.

**Java History**

**James Goslin** is the father of Java. Sun Microsystems is the owner. Started on 1991 by the name of Oak. Oracle is the current owner after making over sun a few years ago.

**“If I were to pick a language to use today other than Java, it would be Scala”**

**James Goslin**

**Java today a reality check**

Java is verbose, suffering from slow release cycle and is fading popularity compared to the new interest such as Ruby, Earlang, Haskell etc. However, in reality java are still widely used and will live for a very long time.

**Java application**

Java are used to develop:

* Program running in terminal (command line)
* Desktop/client-server (GUI)
* Java Applet (embedded in HTML)
* Web, Servlet and JSP, JSF (Java server foundation untuk buat interface) (enterprise)
* Mobile (Android) see also Kotlin
* IoT (Internet of Things)

(PhP digunakan untuk web application programme, java used for the above)

Language run on java virtual machine (JVM):

* Kotlin
* Groovy
* Scale
* jRuby
* Jython
* Clojure

Java categories:

* JSE (core library)

Knowledge command promt is important uses notepad and git bash

Javac – java compiler

Apa yang berlaku pada compiler:

Utk download jdk…pergi ke jdk download

Buka environment variable ….tambah path…utk search the java library

.java to .class we use the compiler

1. download JDK dari oracle website

2. install

- ini install ke c:\program files\java\jdk..

3. set env variable "path" pointke c:\program files\java\jdk..\bin

4. javac<nama file>.java

5. java<nama file>