

# Day-1

# Agenda

- . Agile
- . Git
- . About JAVA
- . JAVA Installation
- . Integrated Development Environment (IDE)
- . JDK , JVM , JRE
- . JAR , WAR , EAR
- . Data Types.
- . Literals \*
- . Operators \*

# Agile

- ★ What is Agile
- ★ What is SCRUM
- ★ Benefits of Agile
- ★ What is User Story
- ★ What is Acceptance Criteria
- ★ What is Scrum Master
- ★ What is Product Owner

# Quiz -Agile

★ Scrum is used for team Lunch - True/False

# Quiz -Agile

★ In one scrum team more then one scrum master may exist - True/False

# Quiz -Agile

★ Scrum meeting can be organised twice a day - True/False

# Quiz -Agile

★ User Story can not be divide in to sub-task - True/False

# Quiz (Answer) -Agile

- ★ Scrum is used for team Lunch - False
- ★ In one scrum team more then one scrum master may exist - False
- ★ Scrum meeting can be organised twice a day - False
- ★ User Story can not be divide in to sub-task - False



# Git

- ★ What is Git
- ★ Life Cycle of Git
- ★ Benefits of Git
- ★ What is Build
- ★ What is Code Review
- ★ What is Pull, Push & Commit
- ★ What is Branching

# Quiz : Git

★ Git is version controls system - True/False

# Quiz : Git

★ Git is repository - True/False

# Quiz : Git

★ Git clone does not create a copy of code - True/False

# Quiz : Git

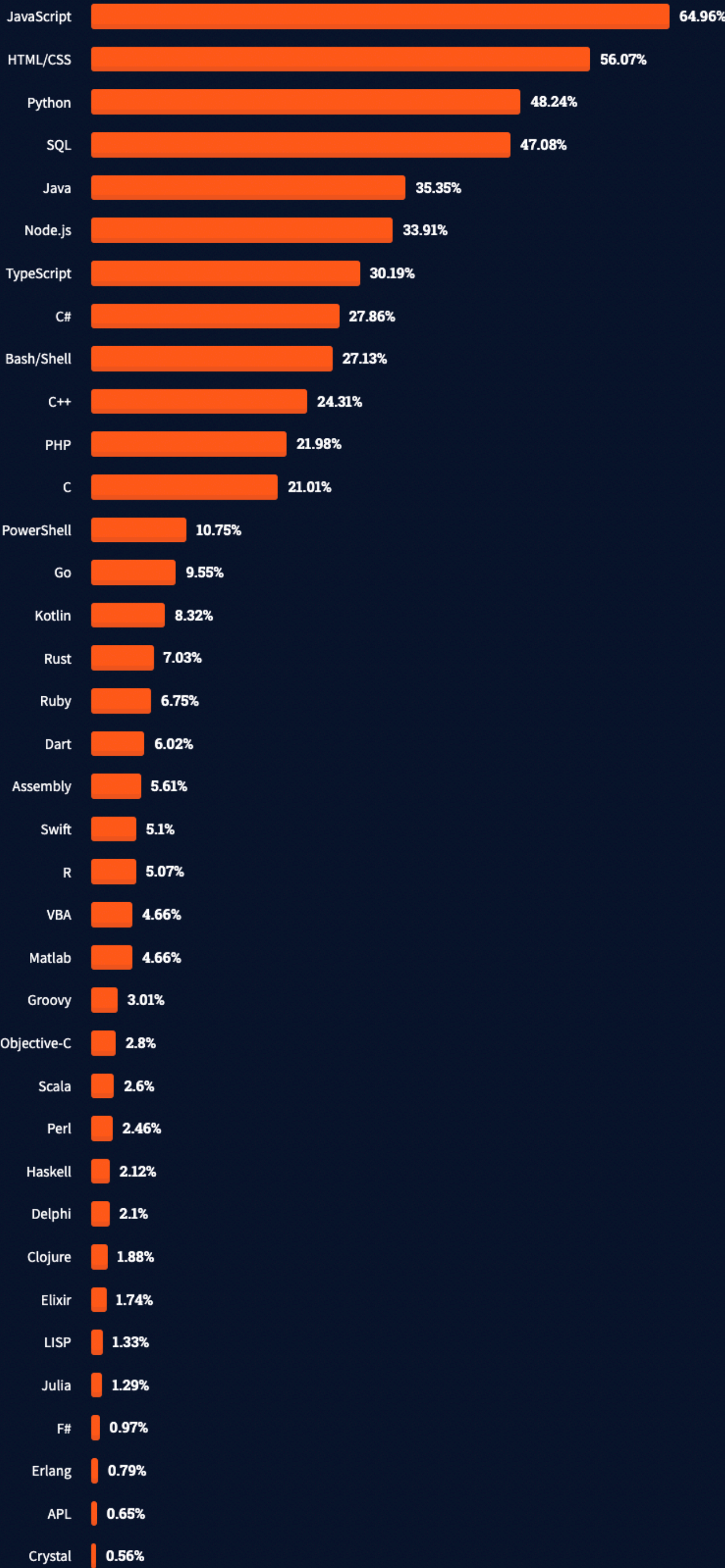
★ “Git status” will tell you if your code is updated or not - True/False

# Quiz (Answer) : Git

- ★ Git is version controls system - True
- ★ Git is repository - True
- ★ Git clone does not create a copy of code -False
- ★ “Git status” will tell you if your code is updated or not - True

# About JAVA

[https://en.wikipedia.org/wiki/Java\\_version\\_history](https://en.wikipedia.org/wiki/Java_version_history)



# Installation

JAVA 8 Installation

Download Link	<a href="https://www.oracle.com/java/technologies/javase/javase8u211-later-archive-downloads.html">https://www.oracle.com/java/technologies/javase/javase8u211-later-archive-downloads.html</a>
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# Integrated Development Environment (IDE)

★ Eclipse\*

★ MyEclipse

★ IntelliJ

★ NetBeans Etc....

Eclipse : 2021-12 (4.22.0) Platform Runtime Binary	<a href="https://archive.eclipse.org/eclipse/downloads/drops4/R-4.22-202111241800/">https://archive.eclipse.org/eclipse/downloads/drops4/R-4.22-202111241800/</a>
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# JAR , WAR , EAR

- ★ **JAVA Archive File (JAR)** : It Contain group of “.class” file
- ★ **Web Archive File (WAR)** : It represent a web application which may contain Servlet, JSP,HTML,CSS, JS etc...
- ★ **EAR (Enterprise Archive File)** : It represent an enterprise application which may contain Servlet , JSP , EJB,JNS component etc...

# Quiz - JAR , WAR , EAR

★ Which of the following is usually not part of EAR File

- a. Server Configuration File
- b. HTML , JSP File
- c. Application configuration file
- d. Class file

## Quiz - JAR , WAR , EAR

- ★ JAR file allow JAVA Runtime Environment(JRE) to deploy an entire application including class file.

**TRUE / FALSE**

# Quiz - JAR , WAR , EAR

★ To deploy **WAR** file web server required .

**TRUE / FALSE**

# Quiz - JAR , WAR , EAR

★ To deploy EAR file Application server required .

**TRUE / FALSE**

## Quiz (Answer) - JAR , WAR , EAR

★ Which of the following is usually not part of EAR File **a. Server Configuration File**

★ JAR file allow JAVA Runtime Environment(JRE) to deploy an entire application including class file. **TRUE**

★ To deploy WAR file web server required . **TRUE**

★ To deploy EAR file Application server required . **TRUE**

# Web Server , Application Server

## ★ Web Server

Apache Tomcat

## ★ Application Server

JBoss

Oracle WebLogic

IBM WebSphere

Etc....



# JDK, JRE , JVM



# JDK, JRE , JVM

## ★ JDK (JAVA Development Kit)

To develop & run java application

## ★ JRE ( JAVA Runtime Environment )

To run java application

## ★ JVM ( JAVA Virtual Machine)

This machine is responsible to execute the JAVA program



# JDK, JRE , JVM

- ★  $\text{JDK} = \text{JRE} + \text{TOOLS}$
- ★  $\text{JRE} = \text{JVM} + \text{Libraries}$
- $\text{JRE} = \text{JVM} + \text{Libraries} + \text{TOOLS}$



# Quiz - JDK, JRE , JVM

1. **JDK = JRE + ?**

2. **? = JVM + Libraries**

3. **Minimum Requirement to Run JAVA Program**

.....

4. **Minimum Requirement to develop the JAVA Program**

.....

# Quiz (Answer)- JDK, JRE , JVM

1. **JDK = JRE + Tools**

2. **JRE = JVM + Libraries**

3. **Minimum Requirement to Run JAVA Program**

**JRE**

4. **Minimum Requirement to develop the JAVA Program**

**JDK**

# Interview Question - JDK, JRE , JVM

1. What is difference between JDK , JRE, JVM

2. How to create the executable jar

3. What is the purpose of JAR file

4. JAVAC is used for