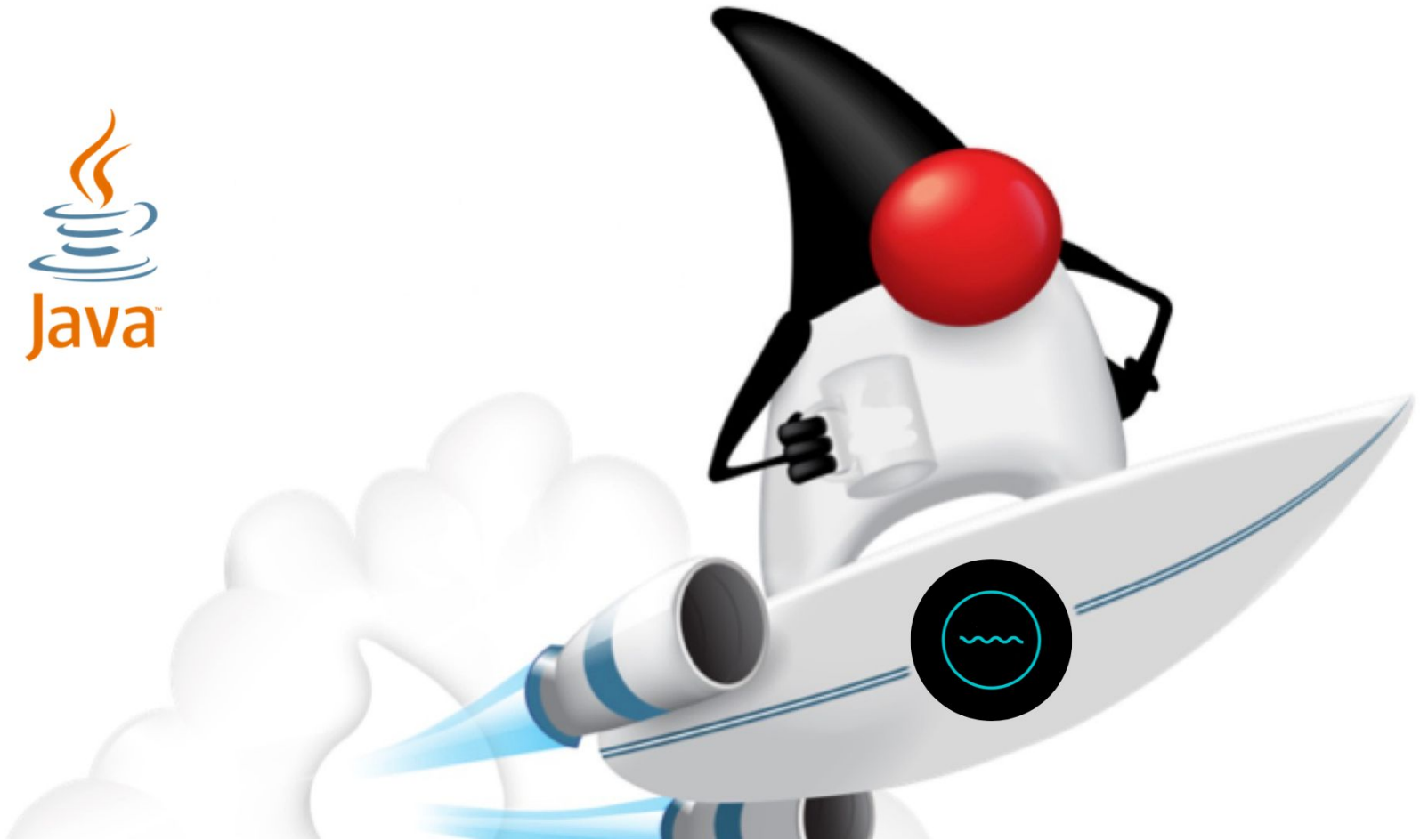# Java Programming Language

JAVA Introduction

- Java is a high level, robust, object-oriented and secure programming language.

- Java not only a programming language but also a platform.

- Java Hello World Program :

```java
public class HelloWorld {
    public static void main(String[] args) {
        System.out.println("Hello World!");
    }
}
```

JAVA Introduction

- Author : *James Gosling*
- Project name : *Green Project*
- Developed by : Sun Micro System
- First Appear : 1995
- Type : *Open Source*
- Initial Name : *OAK language*
- Extensions : .java, *.class & .jar*
- Symbol : Coffee cup with saucer
- Slogan : WORA(Write Once Run Anywhere)

History of JAVA

- Java programming language was originally developed by Sun Microsystems which was initiated by James Gosling.

- The history of java starts with the Green Team.

- James Gosling, Mike Sheridan, and Patrick Naughton initiated the Java language project in June 1991.

- Initially it was developed for digital device like Set Top Boxes, Televisions, etc.

- It was also suited for internet programming.

History of JAVA

- Firstly, it was called "Green Talk" and the file extension was .gt

- Next time it was called Oak and finally In 1995, Oak was renamed as "Java" from "Java Coffee"

- Java is just a name, not acronym.

JAVA Platforms or Editions

□ **Java SE (Java Standard Edition)**

- it is a java programming platform that includes java programming APIs such as java.lang, java.io, java.util, java.net, java.math, java.sql etc. It also includes OOPs, Networking, AWT, Reflection, Collection etc.

□ **Java EE (Java Enterprise Edition)**

- It is an enterprise platform which is mainly used to develop web and enterprise application. It includes topics like JSP, Servlet, EJB, JPA etc.

□ **Java ME (Java Micro Edition)**

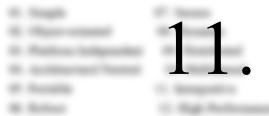- It is a micro edition platform that is mainly used to develop mobile applications.

Version of JAVA

- JDK Alpha and Beta (1995)
- JDK 1.0 (23 Jan 1996)
- JDK 1.1 (19 Feb 1997)
- J2SE 1.2 (8 Dec 1998)
- J2SE 1.3 (8 May 2000)
- J2SE 1.4 (6 Feb 2002)
- J2SE 5.0 (30 Sep 2004)
- Java SE 6 (11 Dec 2006)

Version of JAVA

- Java SE 7 (28 July 2011)
- Java SE 8 (18 Mar 2014)
- Java SE 9 (21 Sep 2017)
- Java SE 10 (20 Mar 2018)
- Java SE 11 (25 Sep 2018)
- Java SE 12 (19 Mar 2019)
- Java SE 13 (17 Sep 2019)
- Java SE 14 (17 Mar 2020)

JAVA Features

01. Simple	07. Secure
02. Object-oriented	08. Dynamic
03. Platform Independent	09. Distributed
04. Architectural Neutral	10. Multithread
05. Portable	11. Interpretive
06. Robust	12. High Performance

Application of JAVA

- Desktop Application
- Web Application
- Enterprise Application
- Mobile App Development
- Games
- Scientific Application
- Cloud-based Application
- Robotics, etc