

AP Computer Science Summer Assignment

The purpose of this summer assignment is so that you will be ready to go once class starts in the fall and for enrichment/practice. It will not count as a grade.

Part 1 – Install the **JAVA JDK** (Java Development Kit) and an **IDE** on your computer at home.

1. Please note that JAVA JDK is different from just installing JAVA. It allows you to test run JAVA code in an IDE.
2. You can choose whichever IDE you prefer. There are many free quality IDE's available online. These are some recommended ones:
 - **BlueJ** – one of the two used in Computer Math
 - **jGrasp** – one of the two used in Computer Math
 - **Eclipse** – a very powerful and complex IDE designed for professionals
3. JAVA SDK and all the IDE's are easy to find online. Just type in their name in any search engine.
4. Installation instructions for all of these are also available online.

Part 2 – Code, compile, and run a Hello World program in your installed IDE. The code for a hello world program is as follows:

```
public class Tester
{
    public static void main(String [] arg){
        System.out.println("Hello World");
    }
}
```

Part 3 – Practice using **codingbat.com/java**

1. The answers to all the codingbat exercises can be found online and I will not grade you on completion. You should try these out though to test your programming skills
2. You should complete all the exercises in Logic 1, String 1, and Array 1.
3. codingbat also has a section for Python. Fell free to challenge yourself to learn the syntax of another programming language.

Part 4 – Practice using **code.org** and **codehs.com**

1. Try out different programming exersizes/tutorials on code.org and codehs.com.