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CS1400

**Test Review**

* JDK: Java Development Kit
* JVM: Java Virtual Machine
  + Allows for java to be portable. Usually in the web browser
* JRE: Java Runtime Environment
  + Allows for them to run the program
* .class
  + Compiled Code
* .java
  + Source code
* javac
  + compiles the .java file
  + javac homework1.java
* java
  + runs the compiled .class file
  + java homework1
* Hello world

**impot java.util.Scanner;**

**public class HelloWorld**

**{**

**public static void main (String[] args)**

**{**

**Scanner stdIn = new Scanner(system.in);**

**System.out.print(“Please Enter your name”);**

**String name = stdIn.nextLine();**

**System.out.print(“Hello” + name + “!”);**

**System.out.println(“Hello World!”);**

**}**

**}**

* int
  + can hold a whole number with 32-bits
* double
  + 64-bits
  + Typically use this because it holds more information
* float
  + 32-bits
* long
  + 64-bit
* short
  + 32-bit
  + Typically use this because you don't need a lot of information
* char
  + 8-bit

01234567891011

* name = Harry Potter
  + char x = name.charAt(4);
* String lastName= name.substring(6);
* String lastName= name.substring(6, 10)
* int size = name.length();
* int count = 0;
* char x;
* for (int i=0; int < size; i++){
* x= name.charAt(i);
* if(x == ‘r’ || x == ‘R”)
  + count ++ (uses count and then increases vs ++count that increases then counts)
* printf(%s%d%f ; string1, double2, float3)
  + % =
* printf(“$%.2f”; taxRate)
  + $99.99

**Study Boolean**

* Multiple methods
  + int y = getExemptions();
    - getExemptions is a separate method