1. Write a “Hello, world!” in Java.  
   The code:  
   /\*\*

\* Author: Cody Valle

\* Date: 10/7/2016

\* Description: This program takes a TPR and an FPR and calculates the post-test probability.

\*\*/

import Java.util.Scanner

public class Hello

{

public static void main(String[] args)

{

Scanner scan = new Scanner(System.in); // Create the scanner

// Get the TPR

System.out.print("What is the TPR? ");

float TPR = scan.nextFloat();

System.out.println();

// Get the FPR

System.out.print("What is the FPR? ");

float FPR = scan.nextFloat();

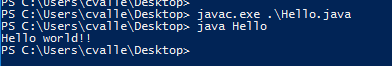
System.out.println();

// Calculate the post-test probability

float post = TPR / FPR;

System.out.println("The post-test probability is " + post + "."); // Print it out

}

}  
  
The program:  


1. Write a program which asks for the pre-test probability, TPR, and FPR, the calculates the post-test probability.  
   The code:  
   /\*\*

\* Author: Cody Valle

\* Date: 10/7/2016

\* Description: This program takes a TPR and an FPR and calculates the post-test probability.

\*\*/

import java.util.Scanner;

public class PostTest

{

public static void main(String[] args)

{

Scanner scan = new Scanner(System.in); // Create the scanner

// Get the pre-test probability

System.out.print("What is the pre-test probability? ");

float pre = scan.nextFloat();

// Get the TPR

System.out.print("What is the TPR? ");

float TPR = scan.nextFloat();

// Get the FPR

System.out.print("What is the FPR? ");

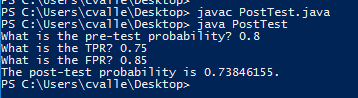
float FPR = scan.nextFloat();

// Calculate the post-test probability

float post = pre \* TPR / (pre \* TPR + (1 - TPR) \* FPR);

System.out.println("The post-test probability is " + post + "."); // Print it out

}

}  
  
The program:  


1. Write a program the sums each integer that a user enters. Terminate when a 0 is entered.  
   The code:  
   /\*\*

\* Author: Cody Valle

\* Date: 10/7/2016

\* Description: This program gets integers from the command line, and

\* adds it to the total sum. When a 0 is received, the program terminates.

\*\*/

import java.util.Scanner;

public class Sum

{

public static void main(String[] args)

{

Scanner scan = new Scanner(System.in); // Create the scanner

int total = 0; // Holds the total sum of the numbers

int input = 0; // Holds the current input

do

{

// Get a number input

System.out.print("What number? ");

input = scan.nextInt();

total += input; // Add the number tot he total

System.out.println("The current total is " + total + "."); // Print out the current total

} while (input != 0); // Run until input is 0

}

}  
  
The program:  
