1. (6 points) What is the output of the following statements:

(a) int i = 0;
   int k = 0;
   for (i = 2; i <= 10; i+=2 ) {
      if ( i < 5 ){
         k = i;
      }
   }
   System.out.println(i);
   System.out.println(k);

(b) int i = 5;
    if (i < 6) {
       while (i > 0) {
          i--;
       }
    } else if (i < 15) {
       i = 100;
    }
    System.out.println(i);

(a) __________
(b) __________

2. (4 points) Write the code for a loop computes the sum of the even numbers 1 through 10 in a variable named sum.