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

(a) int i = 0;
    int k = 0;
    for ( i = 1; i <= 10; i+=2 ) {
        if ( i < 5 ){
            k = i;
        }
    }
    System.out.println(i);
    System.out.println(k);

(a) 11

(b) int i = 5;
    if (i < 6) {
        while (i < 10) {
            i++;
        }
    } else if (i < 15) {
        i = 100;
    }
    System.out.println(i);

(b) 10

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

Solution:

```java
int sum = 0;
for (int i = 1; i <= 10; i+=2 ) {
    sum = sum + i;
}
System.out.println(sum);
```