Lab 7

1- Identify all the errors in the following repetition statement:

```
a- for (int i = 10; i > 0; i++){
x = y;
a = b;
}
```

This logical error because it is infinite loop.

```
b- int sum = 0;
    Scanner scanner = new Scanner(System.in);
    do {
        num = scanner.nextInt();
        sum += num;
        }until (sum > 10000);
```

This is syntactical error because do-until it is not a loop.

```
c- while (x < 1 \&\& x > 10){a = b;}
```

This logical error because the condition is always false.

```
d- while (a == b);
{
          a = b;
          x = y;
}
```

Here is a logical error because it is infinite loop and a syntactical error because the first line end by semcolon.

2- write for, do-while, and while statements to compute the following sums and products.

```
a- int sum = 0;

for (int i = 1; i <= 100; i++){

    sum += i;

}
```

```
int sum = 0;
  int i = 1;
  do {
      sum += i;
      i++;
  } while (i <= 100);
  int sum = 0;
  int i = 1;
  while (i <= 100){
      sum += i;
      i++;
   }
b-int sum = 0;
  for (int i = 1; i \le 10; i++){
      sum += 5 * i;
  }
  int sum = 0;
  int i = 1;
  do {
      sum += 5 * i;
      i++;
  } while (i <= 10);
  int sum = 0;
  int i = 1;
  while (i <= 10){
      sum += 5 * i;
      i++;
   }
```