





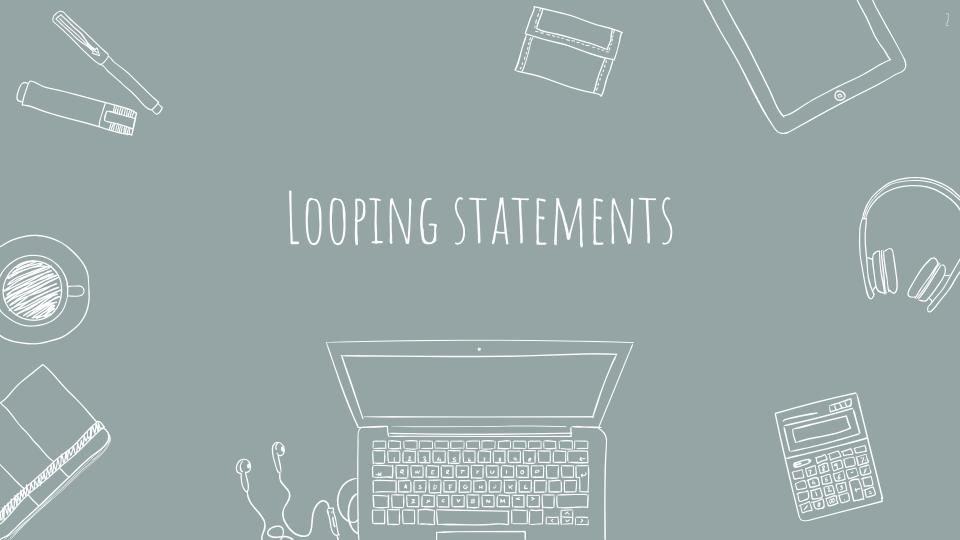
CHAPTER 6

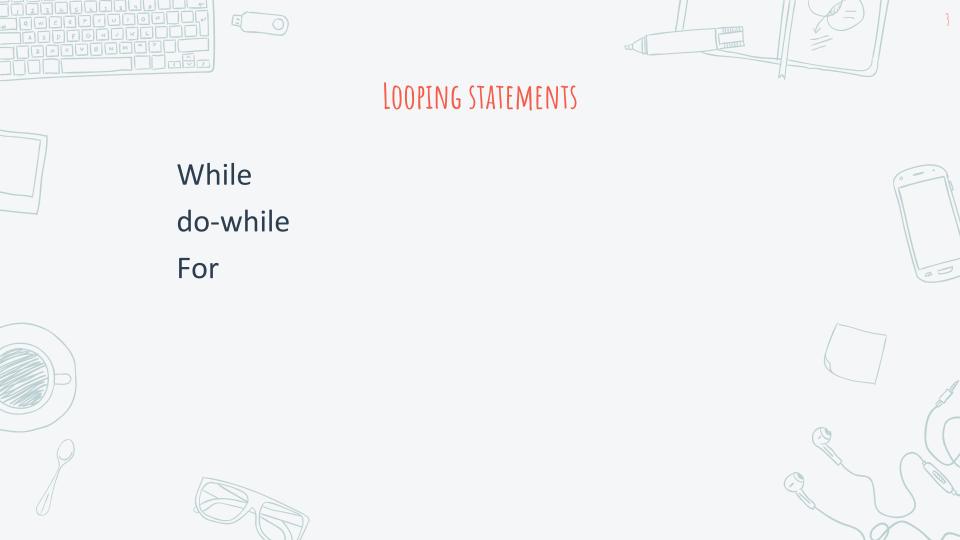
CONTROL FLOW



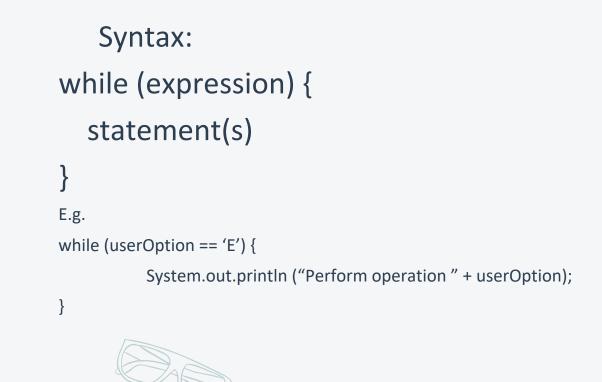




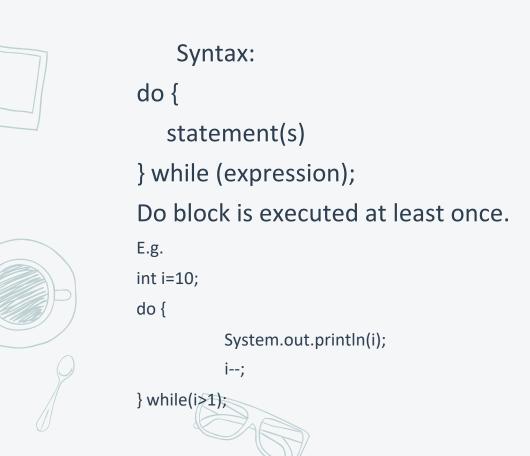




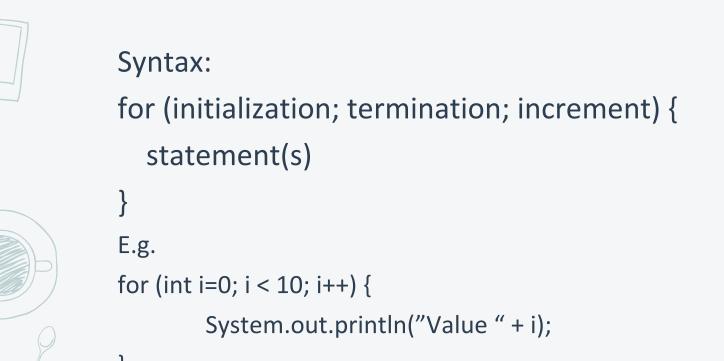




DO-MHITE

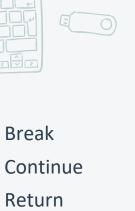


FOR LOOP



FOR EACH

```
Syntax:
for (collectionElement : collection ) {
  statement(s)
E.g.
String[] cars = {"Volvo", "BMW", "Ford", "Mazda"};
for (String car : cars) {
        System.out.println("Car name " + car);
```







Labeled break









BREAK STATEMENT



Break statement terminates the innermost switch, for, while, or do-while statement

```
E.g.
while (true) {
           userInput = readUserInput();
           if(userInput == 'E') {
              // This will exit while loop and continue with next statement after while block.
               break;
           System.out.println("Continue processing");
```











CONTINUE STATEMENT



Continue statement is used inside loops. Whenever it is encountered, control directly jumps to the beginning of the loop for **next** iteration, skipping the execution of statements inside loop's body for the current iteration

E.g.

```
for (int i =0; i < 10; i++) {
   if (isPrimeNumber(i)) {
      continue;
   }
   printFactors(i);
}</pre>
```



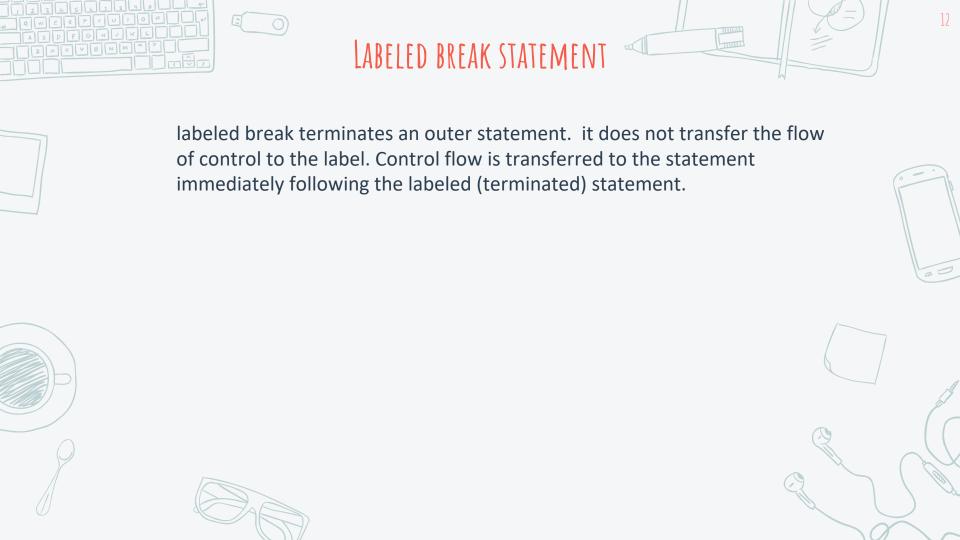


RETURN STATEMENT

A return statement causes the program control to transfer back to the caller of a method. Every method in Java is declared with a return type and it is mandatory for all java methods. Return statement in loops cause to terminate the loop and control get transfer to caller of the method.

```
public static boolean studentPassTheExam (int[] aStudentMarks) {
 for (int mark : aStudentMarks) {
  if (mark < 50) {
   return false:
return true;
public static void main () {
int[] studentMarks = {67, 90, 54, 25};
 if(studentPassTheExam (studentMarks)) {
  System.out.println("Pass");
```





QUIZ

What output do you think the code will produce if aNumber is 3?



if (aNumber == 0)

System.out.println("first string"); else System.out.println("second string"); System.out.println("third string");







Any questions?

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