Loops

- Loops repeatedly execute a set of statements until the condition is satisfied.
- One type of loop is the **while** loop. The whole loop executes a statement as long as the given condition is true.

Take a look at the code below:

```
public class Rocket {
	public static void main(String[] args) {
		int x = 10;

		while( x > 0 )
		{
			System.out.println(x);
			x--;
		}
		System.out.println("Blast Offffff");
	}
}
/* Output:
10
9
8
7
6
5
4
3
2
1
Blast offfff */
/* In the example above, x is equal to 10. The while loop states that as long as x is greater than 0, decrement x and print x. And thus, the program starts at the number 10 and decreases the previous number by 1 until the condition x > 0 is false. */
```

Tip 10: Try to code by hand. Instead of relying on a compiler or IDE to catch your mistakes all the time, handwritten codes can be good practice.

Summary

- Loops repeatedly execute a set of statements until the condition is satisfied.
- One type of loop is the while loop which executes a statement as long as the given condition is true.

Practice

1) What are loops?
2) What does the while loop do?
3) Using the while loop, create a code such that the output of the code is: 1 2 3 4 5