

# Java SE Task, Week 10

## Threads. Multithreading.

### JAVA Standard Edition

#### Task 1

Create any class that extends Thread class.

Implement **run()** method.

Method must count from **1** to **10** with delay **n** milliseconds. So, you will setup your **n** variable from constructor.

In main class, create an array list of your threaded class.

Add at least 10 different objects of your threaded class.

Execute them all.

#### Task 2

Create a class **Car** that extends **Thread** class with parameters:

String name;

int speed; (in m/s)

Inside of the **run()** method your program must calculate and print the distance of a car after each passed second.

Ex:

"Ferrari 1 is in 100 meters"

"Ferrari 1 is in 200 meters"

"Ferrari 1 is in 300 meters"

"Ferrari 1 is in 400 meters"

...

The car will stop after passing some distance, set up in main class. This distance will be the finish line of a road. You should declare this finish line as a static integer.

In Main class, create 10 objects of different cars, with different speed. Assign finish line.

Your 10 cars must start and after reaching finish line, you program must show final classification.

Ex:

Place 1: Ferrari 1 - 10 seconds

Place 2: Mercedes 1 – 11 seconds

Place 3: Renault 2 – 13 seconds

Place 4: BMW 1 – 15 seconds

....

Place 10: Mercedes 3 – 28 seconds