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1)

```
public class RacingTurtle extends Thread{
	private int walkedSteps;
	private String name;
	private volatile boolean running = true;
	public RacingTurtle(String name){
		this.name = name;
		walkedSteps = 0;
	}
	@Override
	public void run(){
		while(running) {
			walkedSteps++;
			System.out.println("" + name + " walked one step!
				Total: " + walkedSteps);
			if(walkedSteps==5){
				System.out.println("" + name + " finished!");
				terminate();
			}
		}
	}
	public void terminate(){
		running = false;
	}
}

public class TurtleRace {
	public static void main(String[] args){
		RacingTurtle turtle1 = new RacingTurtle("Arne");
		RacingTurtle turtle2 = new RacingTurtle("Bob");
		turtle1.start();
		turtle2.start();
	}
}
```

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2)

```
public class RacingTurtle extends Thread{
	private int walkedSteps;
	private String name;
	private volatile boolean running = true;
	public RacingTurtle(String name){
		this.name = name;
		walkedSteps = 0;
	}
	@Override
	public void run(){
		while(running) {
			walkedSteps++;
			System.out.println("" + name + " walked one step!
				Total: " + walkedSteps);
			if(walkedSteps==5){
				System.out.println("" + name + " finished!");
				terminate();
			}
			Random randomizer = new Random();
			int randomTal = randomizer.nextInt(2);
			if(randomTal==0){
				try{
					sleep(2000);
				}
				catch(InterruptedException e){
					System.out.println("Sleep error: " +
name);
				}
			}
		}
	}
	public void terminate(){
		running = false;
	}
}
```

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3)

```
public class CrazyHipsterCat extends HipsterCat implements Runnable{

	public CrazyHipsterCat(String name, int age, boolean
		hasGlasses) {
		super(name, age, hasGlasses);
	}

	@Override
	public void run() {
		while(getNbrOfLivesLeft()>0){
			Random randomizer = new Random();
			if(randomizer.nextDouble()<0.2){
				decrementLives();
				System.out.println("" + getName() + " lost a
					life :(");
			}
		}
		System.out.println("" + getName() + " died X(");
	}

}

public class Main {
	public static void main(String[] args){
		CrazyHipsterCat chc1 = new CrazyHipsterCat("Sven", 12,
			true);
		CrazyHipsterCat chc2 = new CrazyHipsterCat("Per", 4,
			false);
		Thread catThread1 = new Thread(chc1);
		Thread catThread2 = new Thread(chc2);
		catThread1.start();
		catThread2.start();
	}
}
```

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4)

```
public class Kitchen {
	private boolean thereAreCookies;
	public synchronized void bakeCookies(){
		while(thereAreCookies){
			try{
				wait();
			}
			catch(InterruptedException e){
				System.out.println("Bake-error");
			}
		}
		thereAreCookies = true;
		notifyAll();
	}
	public synchronized void eatCookies(){
		while(!thereAreCookies){
			try{
				wait();
			}
			catch(InterruptedException e){
				System.out.println("Eat-error");
			}
		}
		thereAreCookies = false;
		notifyAll();
	}
}
```

6)

```
public class PrinterClass {
	public static void main(String[] args) throws
		FileNotFoundException{
		PrintWriter pw = new PrintWriter("textfile.txt");
		pw.println("*******************************");
		pw.println("All your base are belong to us.");
		pw.println("*******************************");
		pw.close();
	}
}
```