

Classes Threads

- Dois modos de se criar threads em Java
 - Herdando da classe Thread
 - Implementando a interface Runnable

Herdando da Classe Thread

```
class Carro extends Thread {  
    public Carro(String nome) {        super(nome); }  
    public void run() {  
        for (int i=0; i<10;i++) {  
            try {  
                sleep((int)(Math.random()*1000));  
            }  
            catch (Exception e) {};  
            System.out.print(getName());  
            for (int j=0; j<i; j++)  
                System.out.print("--");  
            System.out.println(">");  
        }  
        System.out.println(getName() + " completou a prova.");  
    }  
}
```

Herdando da Classe Thread

```
public class Corrida {  
    public static void main(String args[]) {  
        Carro carroA = new Carro("Barrichelo");  
        Carro carroB = new Carro("Schumacher");  
        carroA.start();  
        carroB.start();  
        try {  
            carroA.join();  
        } catch (Exception e) {}  
        try {  
            carroB.join();  
        } catch (Exception e) {}  
    }  
}
```

Possível Resultado

```
Barrichelo>
Schumacher>
Schumacher-->
Barrichelo-->
Schumacher---->
Barrichelo---->
Schumacher----->
Barrichelo----->
Barrichelo----->
Schumacher----->
Barrichelo----->
Schumacher----->
Barrichelo----->
Schumacher----->
Barrichelo----->
Schumacher----->
Barrichelo----->
Barrichelo----->
Barrichelo completou a prova.
Schumacher----->
Schumacher----->
Schumacher completou a prova.
```

Implementando Runnable

```
class Carro2 implements Runnable {  
    private String nome;  
    public Carro2(String nome) {this.nome = nome;}  
    public void run() {  
        for (int i=0; i<10;i++) {  
            try {  
                Thread.sleep((int)(Math.random()*1000));  
            }  
            catch (Exception e) {};  
            System.out.print(nome);  
            for (int j=0; j<i; j++)  
                System.out.print("--");  
            System.out.println(">");  
        }  
        System.out.println(nome + " completou a prova.");  
    }  
}
```

Implementando Runnable

```
public class Corrida2 {  
    public static void main(String args[]) {  
        Carro2 carroA = new Carro2("Barrichelo");  
        Carro2 carroB = new Carro2("Schumacher");  
        Thread threadA = new Thread(carroA);  
        Thread threadB = new Thread(carroB);  
        threadA.start();  
        threadB.start();  
        try {  
            threadA.join();  
        } catch (Exception e) {}  
        try {  
            threadB.join();  
        } catch (Exception e) {}  
    }  
}
```