



```
        System.out.println("Location(s): " + getLocation());
        System.out.println("Average Life Span: " + getLifeSpan());
        System.out.println("");
    }
    // other getter and setters...
}
```

### **1.2. 1.2.2. Soyut sınıfı miras alan ırkların oluşturulması.**

#### **Elves.java.**

```
public class Elves extends Race {

    @Override
    public void initCharacter() {
        System.out.println("Now inside Elves::initCharacter()");

        // Set some predefined specs for Elves...
        setSubspecies("Quarter-elves");
    }
}
```

#### **Humans.java.**

```
public class Humans extends Race {

    @Override
    public void initCharacter() {
        System.out.println("Now inside Humans::initCharacter()");

        // Set some predefined specs for Humans...
        setSubspecies("Witchers");
    }
}
```

#### **Dwarves.java.**

```
public class Dwarves extends Race{

    @Override
    public void initCharacter() {
        System.out.println("Now inside Dwarves::initCharacter()");

        // Set some predefined specs for Dwarves...
```

```
        setSubspecies("PoLevik");  
    }  
}
```

### **1.3. 1.2.3. Verilen bilgilere göre sınıf nesnesi üretmek üzere factory sınıfının oluşturulması**

İhtiyaç duyulan nesnelerin üretimi bu factory sınıfı içerisinde yapılır.

#### **RaceFactory.java.**

```
public class RaceFactory {  
  
    public Race getRace(String raceType) {  
        if(raceType == null) {  
            return null;  
        }  
        if (raceType.equalsIgnoreCase("ELVES")) {  
            return new Elves();  
        } else if (raceType.equalsIgnoreCase("HUMANS")) {  
            return new Humans();  
        } else if (raceType.equalsIgnoreCase("DWARVES")) {  
            return new Dwarves();  
        }  
        return null;  
    }  
}
```

### **1.4. 1.2.4. Client main sınıfından nesne üretmek için RaceFactory'nin kullanılması**

#### **Client.java.**

```
public class Client {  
  
    public static void main(String[] args) {  
        RaceFactory raceFactory = new RaceFactory();  
  
        Race race1 = raceFactory.getRace("ELVES");  
        race1.initCharacter();  
        race1.displayRace();  
  
        Race race2 = raceFactory.getRace("HUMANS");
```

```
        race2.initCharacter();
        race2.displayRace();

        Race race3 = raceFactory.getRace("DWARVES");
        race3.initCharacter();
        race3.displayRace();
    }
}
```

### 1.5. 1.2.5. Çıktılar

Now inside Elves::initCharacter()

Subspecies: Quarter-elves  
Language(s): Common Speech  
Location(s): Blue Mountains, Nilfgaardian Empire  
Average Life Span: 350

Now inside Humans::initCharacter()

Subspecies: Witchers  
Language(s): Common Language  
Location(s): All of the known world  
Average Life Span: 75

Now inside Dwarves::initCharacter()

Subspecies: Polevik  
Language(s): Common Language, Dwarvish  
Location(s): Mahakam  
Average Life Span: 180