Write the Java source code for a class named Question1 that lives in a package named exam.

```
package exam;
public class Question1 {
     public Question1() {
     }
}
```

Given a class definition (Java Source Code), circle and identify one example of the following:

- a) Class definition
- b) Class header
- c) Class body
- d) Class name
- e) Package declaration
- f) Package name
- g) Keyword
- h) Constructor definition
- i) Constructor neader
- j) Constructor body
- k) Parameter list
- I) Argument list
- m) Method call
- n) Creation of an object
- o) Local variable name
- p) Assignment statement

```
package example1
   A collection of bugs that live in a terrarium.
   @author
   Created on: Feb 8, 2010
public class MyBugCollectio
        * Creates a new instance of MyBugCollection
      public MyBugCollection()
             example1. Terrarium terrarium
                                new example1. Terrarium (
             example1.Ant ant1
                  = new example1.Ant()
             antl start();
             terrarium add (ant1);
             terrarium add <mark>new</mark> example1.Ant())
             example1.Caterpillar caterpillar
                                new example1.Caterpillar(
             caterpillar start();
             terrarıum add (caterpillar)
             (1ew Caterpillar();
             new Caterpillar()
```

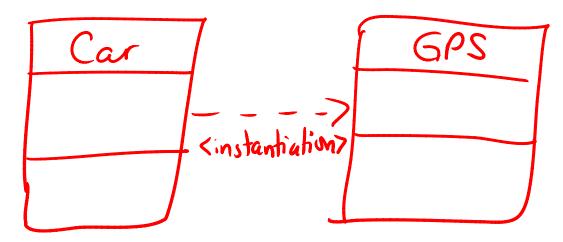
What is the scope of a local variable?

Scope is where the variable is accessible. The scope of a local variable is from the point of declaration to the end of the method body.

What is the difference between local variable dependency and instantiation dependency?

In both dependency relationships, the Source creates an instance of the Target, but in local variable dependency, there is a local variable created and in instantiation dependency, there is not.

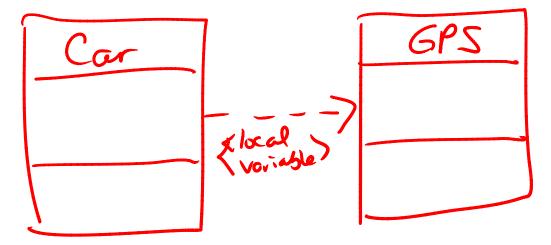
Draw the UML diagram for the relationship: Car uses a GPS. (instantiation)



Write the source code for the above relationship. (using instantiation)

```
public class Car {
     public Car() {
     new GPS();
     }
}
```

Draw the UML diagram for the relationship: Car uses a GPS. (local variable)



Write the source code for the above relationship. (using local variable)

```
public class Car {
    public Car() {
        GPS gps = new GPS();
    }
}
```