Exercise

This exercise is all about variable scope. In the next page, we have a class definition. There are 5 questions included as part of comments. For example, first question is provided as

(Q1) legal or illegal?

Write down your answer following the question. Once you have done that you can crosscheck your answers with the solution provided in the resources section.

```java
class VariableScope {

    int x = 5;

    int y = x + 1;

    int z = w + 1; // (Q1) legal or illegal?


    void foo(int a) {

        int x = 0;

        int k = x; // (Q2) What value is k assigned?

        if (k == 0) {

            int m = -1;

        }

        k = m; // (Q3) legal or illegal?

        bar();

    }

    void bar() {

        int b = k; // (Q4) legal or illegal?

        int c = w; // (Q5) legal or illegal?

    }

    int w = 5;

}
```