

HW5: Chapter 5

```
class Car {  
    String brand;  
  
    private class Engine {  
        void start() {  
            System.out.println("Engine started for " + brand + " car");  
        }  
    }  
  
    public void setBrand(String brand) {  
        this.brand = brand;  
    }  
  
    public void startEngine() {  
        Engine engine = new Engine();  
        engine.start();  
    }  
}
```

Q1: According to the above code which from following is inner class :

- A. Car
- B. Engine
- C. setBrand
- D. StartEngine

Q2: According to the above code which from following is outer class :

- A. Car
- B. Engine
- C. setBrand
- D. StartEngine

```

public class Outerclass {
    // instance method of the outer class
    void my_Method() {
        int num = 78; // Changed from 23 to 78
        // method-local inner class
        class MethodInner_Demo {
            public void print() {
                System.out.println("This is method inner class " + num);
            }
        } // end of inner class
        // Accessing the inner class
        MethodInner_Demo inner = new MethodInner_Demo();
        inner.print();
    }

    public static void main(String args[]) {
        Outerclass outer = new Outerclass();
        outer.my_Method(); // Calling the method of the outer class
    }
}

```

Q3: According to the above code what is the output :

A) This is method inner class 78

B) This is method inner class num

C) outer.my_Method();

D) Compilation error: Variable 'num' is accessed from within inner class; needs to be declared final.