




# 7 Scenarios To Load .class File In JAVA





# Using Java Development Tools



```
javac -verbose MyClass.java  
java MyClass  
javap MyClass.class  
javaw MyClass
```





# Calling static variables and methods

```
class Main {  
    public static void main(String args[]) {  
        System.out.println(Car.maxSpeed);  
        Car.suspension();  
    }  
}  
  
class Car {  
    static int maxSpeed = 100;  
    static {  
        System.out.println("Car static block");  
    }  
  
    static void suspension() {  
        System.out.println("fixed suspension!");  
    }  
}
```





# Creating an Object

```
class Main {  
    public static void main(String args[]) {  
        //Unreferenced Object Creation (Anonymous Object)  
        new Car();  
    }  
}  
  
class Car {  
    static {  
        System.out.println("Car static block");  
    }  
}
```





# Reflection API



```
public class Main {  
    public static void main(String[] args) throws Exception{  
        Class<?> cls = Class.forName("Car");  
        Object instance = cls.getDeclaredConstructor().newInstance();  
        cls.getDeclaredMethod("printDetails").invoke(instance);  
    }  
}  
  
class Car{  
    int maxSpeed = 220;  
    String name = "Kia";  
    static {System.out.println("Static block in Car class");}  
    public void printDetails(){  
        System.out.println("The name of the Car is "  
            + name + " :: The maxSpeed is " + maxSpeed);}  
}
```





# ClassName.class



```
public class Main {  
    public static void main(String[] args) throws Exception {  
        // Loading the .class file  
        Class cls = Car.class  
        // Create an object  
        Car carInstance = cls.getDeclaredConstructor().newInstance();  
  
        // Print class name  
        System.out.println("Loaded class: " + cls.getName());  
    }  
}
```





# Inheritance



```
public class Main {  
    public static void main(String[] args) throws Exception{  
        // Compile-time safe!  
        Class cls = Car.class  
        Object instance = cls.getDeclaredConstructor().newInstance();  
        cls.getDeclaredMethod("printDetails").invoke(instance);  
    }  
}
```







**THANK YOU!**