- ## Reflection API in Java

Java reflection is an API used to inspect and modify Java classes, fields, methods, and constructors at runtime. Java has a class named class that collects and stores all information about classes and objects, this class helps facilitate the ability to use reflection.

- **.getClass():** The getClass method is called on the object of a class to retrieve and reflect the class you want.
- **.class Extension:** The .class extension is also used to retrieve and reflect class information. This extension is chained to the end of a class, creating an object of the Class.

Ex:

```java
class Main {
  public static void main(String[] args) {
    try {
      // create an object of Car
      Car c1 = new Car();

      // create an object of Class
      // using getClass()
      Class obj = c1.getClass();

      // get name of the class
      String name = obj.getName();
      System.out.println("Name: " + name);

      // get the access modifier of the class
      int modifier = obj.getModifiers();

      // convert the access modifier to string
      String mod = Modifier.toString(modifier);
      System.out.println("Modifier: " + mod);

      // get the superclass of Car
      Class superClass = obj.getSuperclass();
      System.out.println("Superclass: " + superClass.getName());
    }
    catch (Exception e) {
      e.printStackTrace();
    }
  }
}
```