Exercise 03

Try following code. What is the outcome? Why?

Class 01:   Class 02:

final class Student { class Undergraduate extends Student{}

          final int marks = 100;

          final void display();

}

The code defines two classes: Class01 and Class02.

Inside Class01, there is an inner class named Student. The Student class is marked as final, which means it cannot be subclassed further. It has a final instance variable marks with a value of 100, and a final method display(). The display() method does not have a body in the code provided, so it will result in a compilation error. To fix it, we should provide an implementation for the display() method.

Inside Class02, there is a nested class named Undergraduate, which extends Class01.Student. Since Class01.Student is marked as final, it cannot be subclassed, so the attempt to extend it will result in a compilation error.