LAB 8

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BRANCH: IT

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| S No. | Title | Date Of Implementation | Remarks |
| 1 | Program to illustrate method overriding | 28-02-2021 |  |

Program to illustrate Method Overriding(run-time polymorphism)

OBJECTIVE:

The following program creates a super class **child**. The classes **girl** and **boy** are children classes of the class **child**.

**child**

void introduce()

**girl**

void introduce()

**boy**

void introduce()

In the class boy,

The method introduce overrides the introduce method of the class child (run-time polymorphism)

In the class girl,

The method introduce overrides the introduce method of the class child (run-time polymorphism)

CODE:

public class Lab8 {

    public class child{

        int age;

        void introduce(){

            System.out.println("I am a child");

        }

    }

    public class boy extends child{

        boy(int age){

            super.age = age;

        }

        // Method Overriding: Run time polymorphism

        // Overrides the introduce() method of parent class if object of child is created

        void introduce(){

            System.out.println("I am a boy");

        }

    }

    public class girl extends child{

        girl(int age){

            super.age = age;

        }

        // Method Overriding: Run time polymorphism

        // Overrides the introduce() method of parent class if object of child is created

        void introduce(){

            System.out.println("I am a girl");

        }

    }

    public static void main(String[] args) {

        Lab8 l = new Lab8();

        child c = l.new child();

        c.introduce();

        boy b = l.new boy(6);

        b.introduce();  // overrides the introduce method of class: child

        girl g = l.new girl(8);

        g.introduce();  // overrides the introduce method of class: child

    }

}

OUTPUT:

