

LAB 8

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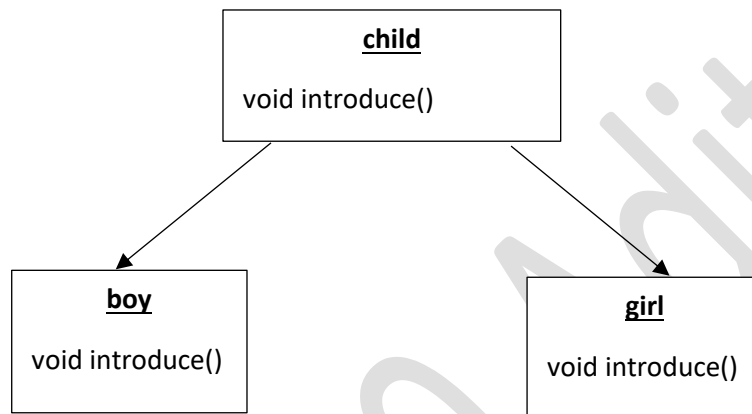
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S No.	Title	Date Of Implementation	Remarks
1	Program to illustrate method overriding	28-02-2021	

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**.



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:

```

PS C:\Users\beadi\Desktop\JAVA LAB\Practical 8>
I am a child
I am a boy
I am a girl

```