

Design Pattern Lab Mid-Term Lab

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```
package midtermlab;
```

```
/**
```

```
*
```

```
* @author fa20-bse-172
```

```
*/
```

```
public class Beryani implements Shape {
```

```
    public void draw() {
```

```
        System.out.println("Meals Type: Beryani");
```

```
    }
```

```
}
```

```
package midtermlab;
```

```
/**
```

```
*
```

```
* @author fa20-bse-172
```

```
*/
```

```
public class MealsDecorator {
```

```
    public static void main(String[] args) {
```

```
        Shape type = new Beryani();
```

```
Shape Salad = (Shape) new RiceWithSalad(new Beryani());
```

```
Shape colddrinks = (Shape) new RiceWithSalad(new Rice());
```

```
System.out.println("Beryani with Cold Drinks");
```

```
type.draw();
```

```
System.out.println("\nBeryani with Salad");
```

```
colddrinks.draw();
```

```
System.out.println("\nRice with Salad");
```

```
colddrinks.draw();
```

```
}
```

```
}
```

```
package midtermlab;
```

```
/**
```

```
*
```

```
* @author fa20-bse-172
```

```
*/
```

```
public class Rice implements Shape {
```

```
    public void draw() {
```

```
        System.out.println("Meals type: Rice");
```

```
    }
```

```
}
```

```
package midtermlab;
```

```
/**
```

```
*
```

```
* @author fa20-bse-172
```

```
*/
```

```
class RiceWithChicken {
```

```
    static void draw() {
```

```
        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated  
        methods, choose Tools | Templates.
```

```
    }
```

```
}
```

```
package midtermlab;
```

```
/**
```

```
*
```

```
* @author fa20-bse-172
```

```
*/
```

```
public abstract class RiceWithDrinks implements Shape {
```

```
    protected Shape decoratedShape;
```

```
    public RiceWithDrinks(Shape decoratedShape){
```

```
        this.decoratedShape = decoratedShape;
```

```
}
```

```
@Override
```

```
public void draw(){
```

```
    decoratedShape.draw();
```

```
}
```

```
}
```

```
package midtermlab;
```

```
/**
```

```
 *
```

```
 * @author fa20-bse-172
```

```
 */
```

```
public class RiceWithSalad extends RiceWithDrinks {
```

```
    public RiceWithSalad(Shape decoratedShape) {
```

```
        super(decoratedShape);
```

```
    }
```

```
    public void draw() {
```

```
        decoratedShape.draw();
```

```
        Shape decoratedShape = null;
```

```
        setRedBorder(decoratedShape);
```

```
    }
```

```
    private void setRedBorder(Shape decoratedShape){
```

```
        System.out.println("Rice with: Salad");
```

```
}  
}
```

```
package midtermlab;
```

```
/**
```

```
*
```

```
* @author fa20-bse-172
```

```
*/
```

```
public interface Shape {
```

```
    void draw();
```

```
}
```