

```
1 package com;
2
3 public interface Car {
4
5     public void assemble();
6
7 }
8
```

```
1 package com;
2
3 public class BasicCar implements Car {
4
5     @Override
6     public void assemble() {
7         System.out.println("This is Basic Car");
8     }
9 }
10
11 }
12
```

```
1 package com;
2
3 public class CarDecorator implements Car {
4
5     Car car;
6     public CarDecorator(Car c) {
7         this.car=c;
8
9     }
10
11
12     @Override
13     public void assemble() {
14         this.car.assemble();
15
16     }
17
18 }
19
```

```
1 package com;
2
3 public class SportsCar extends CarDecorator {
4
5     public SportsCar(Car c) {
6         super(c);
7
8     }
9
10    public void assemble(){
11        super.assemble();
12        System.out.println("Adding features of Sport Car");
13    }
14 }
15
```

```
1 package com;
2
3 public class LuxuryCar extends CarDecorator{
4
5     public LuxuryCar(Car c) {
6         super(c);
7     }
8
9     public void assemble(){
10         super.assemble();
11         System.out.println("Adding features of Luxury Car");
12     }
13 }
14
15 }
16
```

```
1 package com;
2
3 public class DecoratorPatternTest {
4
5     public static void main(String[] args) {
6
7         Car sportsCar = new SportsCar(new BasicCar());
8         sportsCar.assemble();
9         System.out.println("\n*****");
10
11         Car sportsLuxuryCar = new SportsCar(new LuxuryCar(new BasicCar()));
12         sportsLuxuryCar.assemble();
13
14     }
15 }
16 }
17
```

