Experiment – 11

Aim –Decorator design pattern (Structural pattern)

Concept -Decorator is a structural design pattern that lets you attach new behaviors to objects by placing these objects inside special wrapper objects that contain the behaviors.

cake.java

```
public interface cake {
    void makeCake();
}
```

RedVelvet.java

```
public class RedVelvet implements cake{
    @Override
    public void makeCake() {
        System.out.println("RedVelvet Cake ② ③ ");
    }
}
```

BlackForest.java

CakeDecorator.java

```
public class CakeDecorator implements cake {
   cake decoratedCake;

public CakeDecorator(cake decoratedCake) {
     this.decoratedCake = decoratedCake;
}

@Override
public void makeCake() {
     decoratedCake.makeCake();
}
```

CherryDecorator.java

```
public class CherryDecorator extends CakeDecorator{
   public CherryDecorator(cake decoratedCake) {
        super(decoratedCake);
   }

   @Override
   public void makeCake() {
        decoratedCake.makeCake();
        setCherryonCake(decoratedCake);
   }

   void setCherryonCake(cake decoratedCake) {
        System.out.println("Putting Cherry on Cake "");
   }
}
```

Main.java

OUTPUT: