NAME: USMAN ALI

REG NO:FA21-BSE-159

SOFTWARE DESIGN AND ARCHITECTURE.

DATE: 03/12/2024.

MODIFIED MVC ARCHITECTUR EXAMPLE:

MAIN:

```java
package main;

] import controller.Controller;
  import model.Model;
- import view.View;


  public class JavaApplication6 {


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

              Model model = new Model();
              View view = new View();
              Controller c = new Controller(model , view);

                  c.setData(":    Hello,  MVC :");
          c.updateView();



-     }
  }
```

MODEL;

```java
package model;

public class Model {

    private String data;

    public String getData(){
        return data;
    }
    public void setData(String data) {
        this.data = data;
    }
}
```
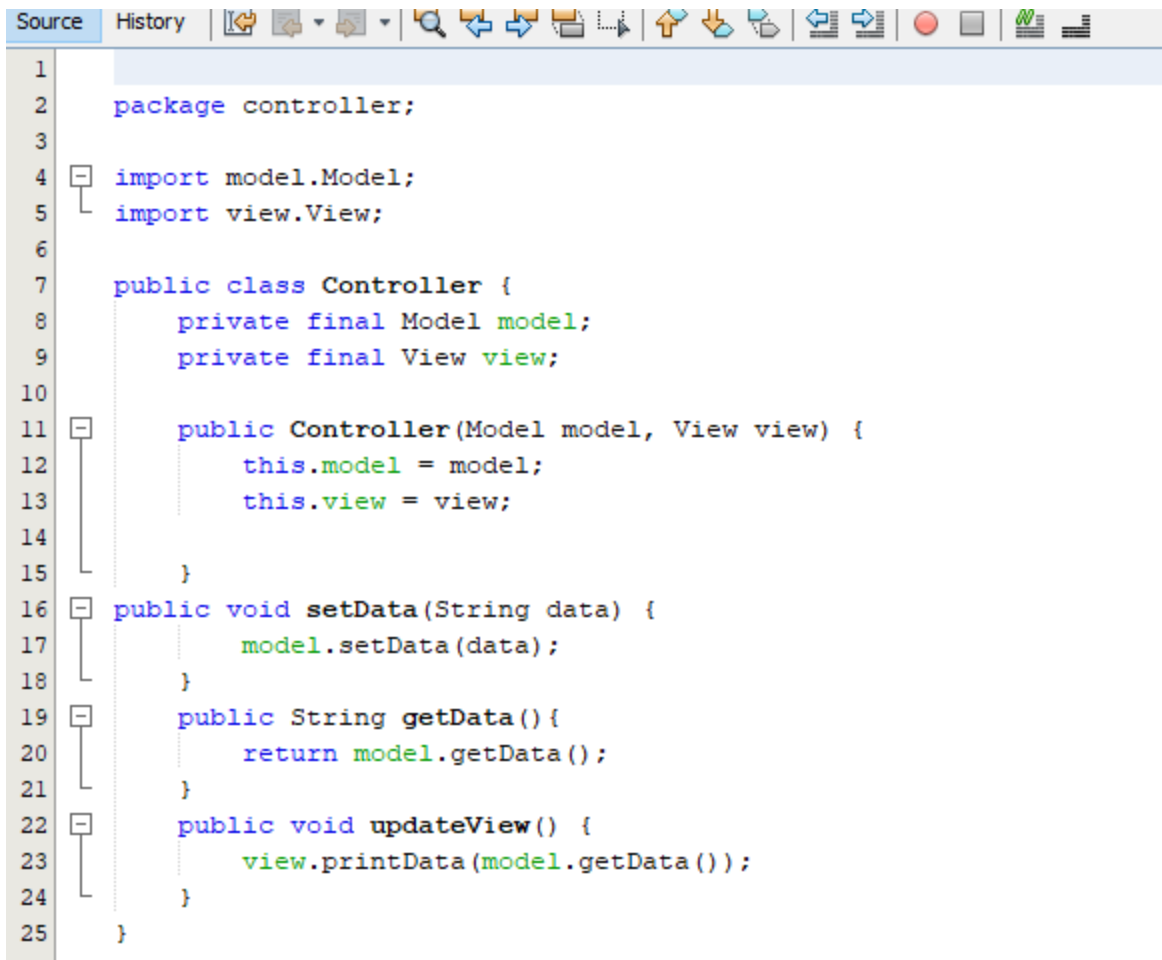
VIEW:

```java
package view;


public class View {
    public void printData(String data) {
        System.out.println("data" + data);

    }
}
```
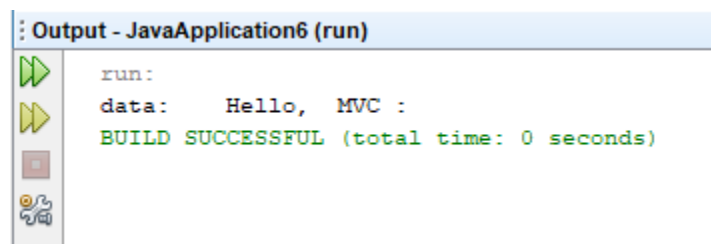
CONTROLLER:

```java
package controller;

import model.Model;
import view.View;

public class Controller {
    private final Model model;
    private final View view;

    public Controller(Model model, View view) {
        this.model = model;
        this.view = view;

    }
public void setData(String data) {
        model.setData(data);
    }
    public String getData(){
        return model.getData();
    }
    public void updateView() {
        view.printData(model.getData());
    }
}
```

OUTPUT:

```
Output - JavaApplication6 (run)

    run:
    data:    Hello,  MVC :
    BUILD SUCCESSFUL (total time: 0 seconds)
```