

NAME: USMAN ALI

REG NO:FA21-BSE-159

SOFTWARE DESIGN AND ARCHITECTURE.

DATE: 03/12/2024.

MODIFIED MVC ARCHITECTUR EXAMPLE:

MAIN:

```
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;

```

package model;

public class Model {

    private String data;

    public String getData() {
        return data;
    }

    public void setData(String data) {
        this.data = data;
    }

}

```

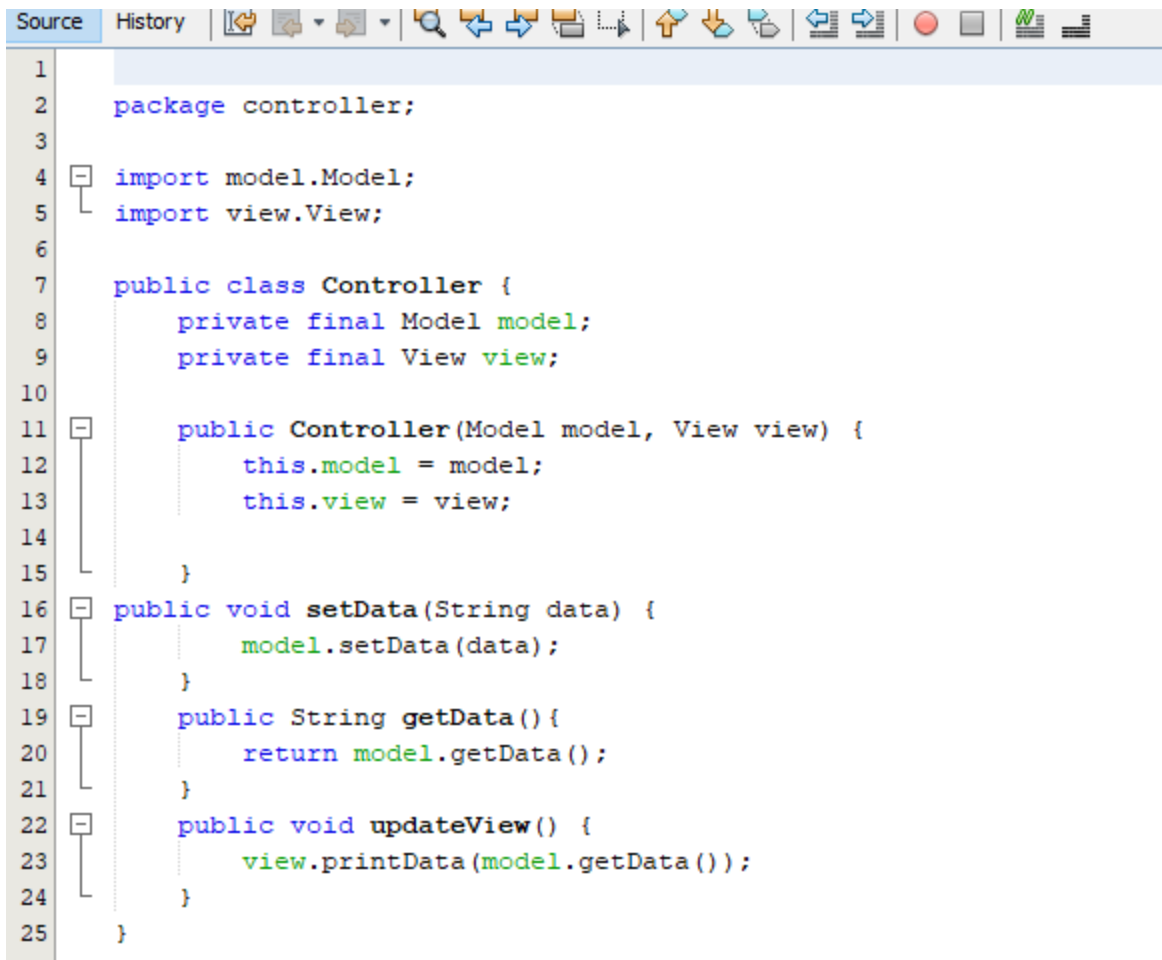
VIEW:

```

1 package view;
2
3
4
5 public class View {
6     public void printData(String data) {
7         System.out.println("data" + data);
8     }
9
10 }
11

```

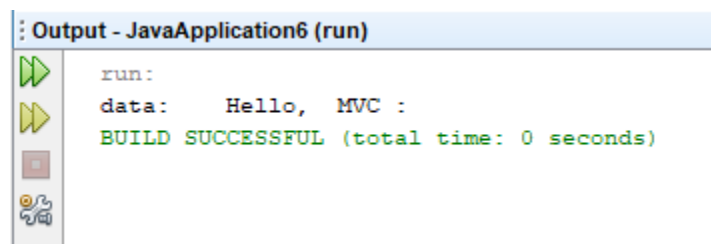
CONTROLLER:



The screenshot shows an IDE window with a 'Source' tab. The code is as follows:

```
1
2 package controller;
3
4 import model.Model;
5 import view.View;
6
7 public class Controller {
8     private final Model model;
9     private final View view;
10
11     public Controller(Model model, View view) {
12         this.model = model;
13         this.view = view;
14     }
15
16     public void setData(String data) {
17         model.setData(data);
18     }
19     public String getData() {
20         return model.getData();
21     }
22     public void updateView() {
23         view.printData(model.getData());
24     }
25 }
```

OUTPUT:



The screenshot shows the 'Output - JavaApplication6 (run)' window. The output is as follows:

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