# Design Pattern Lab Manual

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# Architectural Design Pattern

| Sr. No | Name                  |
|--------|-----------------------|
| 1      | Model Veiw Controller |
|        |                       |

#### Model-View-Controller

#### CalculatorController.java

#### Calculator Model. java

```
public class CalculatorModel {
    private int calcValue;
    public void addTwoNumbers(int fn,int sn) {
        calcValue=fn+sn;
    }
    public int getCalculationValue() {
        return calcValue;
    }
}
```

## CalculatorView.java

```
private JLabel addtionLabel=new JLabel("+");
private JTextField calcSolution=new JTextField(10);
CalculatorView() {
   JPanel calcPanel=new JPanel();
   calcPanel.add(fn);
   calcPanel.add(addtionLabel);
   calcPanel.add(sn);
   calcPanel.add(calculateButton);
   calcPanel.add(calcSolution);
   this.add(calcPanel);
    return Integer.parseInt(fn.getText());
    return Integer.parseInt(sn.getText());
public int getCalcSolution() {
    return Integer.parseInt(calcSolution.getText());
public void setCalcSolution(int solution) {
   calcSolution.setText(Integer.toString(solution));
   JOptionPane.showMessageDialog(this, errorMessage);
```

### MVCCalculator.java

#### Output:

