

Løsningsforslag – Uke 15**1.**

```
import javafx.application.Application;
import javafx.stage.Stage;
import javafx.scene.Scene;
import javafx.scene.layout.VBox;
import javafx.scene.control.Button;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import javafx.event.EventHandler;
import javafx.event.ActionEvent;
import javafx.geometry.Pos;

public class Opgave1 extends Application{
    public TextField tekstfelt;
    public Label hilsen;

    @Override
    public void start(Stage stage){
        VBox pane = new VBox();
        pane.setAlignment(Pos.CENTER);

        Label merkelapp = new Label("Fyll inn navn:");
        tekstfelt = new TextField("Navn");

        Button knapp = new Button("Si hei!");
        Behandler behandler = new Behandler();
        knapp.setOnAction(behandler);

        hilsen = new Label("");

        pane.getChildren().addAll(merkelapp, tekstfelt, knapp, hilsen);
        stage.setScene(new Scene(pane, 200, 100));
        stage.show();
    }

    class Behandler implements EventHandler<ActionEvent>{
        @Override
        public void handle(ActionEvent e){
            String hilsetekst = tekstfelt.getText();
            hilsen.setText(String.format("Hei på deg, %s!", hilsetekst));
        }
    }

    public static void main(String[] args) {
        launch(args);
    }
}
```

2.

```
import javafx.application.Application;
import javafx.stage.Stage;
import javafx.scene.Scene;
import javafx.scene.layout.VBox;
import javafx.scene.layout.HBox;
import javafx.scene.control.Button;
import javafx.scene.control.TextField;
import javafx.event.EventHandler;
import javafx.event.ActionEvent;
import javafx.geometry.Pos;

public class Kalkulator extends Application {

    /*Trenger aa kunne hente ut disse i ButtonHandler*/
    HBox textPane;
    TextField t1, t2;
    HBox buttonPane;
    TextField res;

    @Override
    public void start (Stage stage) {
        VBox rootPane = new VBox();

        textPane = new HBox();
        textPane.setAlignment(Pos.CENTER);

        t1 = new TextField("Number 1");
        t2 = new TextField("Number 2");

        textPane.getChildren().addAll(t1, t2);

        buttonPane = new HBox();
        buttonPane.setAlignment(Pos.CENTER);

        Button plusB = new Button("+");
        Button minusB = new Button("-");
        Button multB = new Button("X");
        Button divB = new Button ("/");

        buttonPane.getChildren().addAll(plusB, minusB, multB, divB);

        ButtonHandler btnH = new ButtonHandler();

        plusB.setOnAction(btnH);
        minusB.setOnAction(btnH);
        multB.setOnAction(btnH);
        divB.setOnAction(btnH);

        res = new TextField("Result");

        rootPane.getChildren().addAll(textPane, buttonPane, res);
        stage.setScene(new Scene(rootPane, 200, 100));
        stage.setTitle("My Calculator");
    }
}
```

```
        stage.show();
    }

public static void main(String[] args) {
    launch (args);
}

class ButtonHandler implements EventHandler<ActionEvent>{

    @Override public void handle (ActionEvent e) {

        /*Finner ut hvilken knapp som har vært trykket*/
        Button tmp = (Button) e.getSource();

        Double num1 = 0.0, num2 = 0.0;

        try {
            num1 = Double.parseDouble(t1.getText());
            num2 = Double.parseDouble(t2.getText());

        } catch (NumberFormatException nfe) {
            System.out.println("Those aren't numbers!");
            return;
        }

        String op = tmp.getText();

        double r = 0;

        switch (op){
            case "+":
                r = num1+num2;
                break;

            case "-":
                r = num1-num2;
                break;

            case "X":
                r = num1*num2;
                break;

            case "/":
                r = num1/num2;
                break;

        }
        res.setText(""+r);
    }
}
```