

Java

```
package com.tompkinsdesign.finalexam;

import android.os.Bundle;
import android.app.Activity;
import android.graphics.Color;
import android.view.Menu;
import android.widget.ImageView;
import android.widget.SeekBar;
import android.widget.SeekBar.OnSeekBarChangeListener;
import android.widget.TextView;

public class MainActivity extends Activity {
    int sRed, sBlue, sGreen, redBlend, greenBlend, blueBlend;
    SeekBar seekRed, seekBlue, seekGreen;
    @Override

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final TextView red = (TextView) findViewById(R.id.txtRed);
        final TextView blue = (TextView) findViewById(R.id.txtBlue);
        final TextView green = (TextView) findViewById(R.id.txtGreen);
        final ImageView blend = (ImageView) findViewById(R.id.imgBlend);
        seekRed = (SeekBar) findViewById(R.id.sbRed);
        seekBlue = (SeekBar) findViewById(R.id.sbBlue);
        seekGreen = (SeekBar) findViewById(R.id.sbGreen);

        OnSeekBarChangeListener sbRed = new OnSeekBarChangeListener() {

            @Override
            public void onStopTrackingTouch(SeekBar seekBar) {
                // TODO Auto-generated method stub

            }

            @Override
            public void onStartTrackingTouch(SeekBar seekBar) {
                // TODO Auto-generated method stub

            }

            @Override
            public void onProgressChanged(SeekBar seekBar, int progress1,
                boolean fromUser) {
                // TODO Auto-generated method stub
                String redText = Integer.toString(progress1);
                red.setText(redText);
                red.setBackgroundColor(Color.rgb(progress1, 0, 0));
                redBlend = progress1;
                blend.setBackgroundColor(Color.rgb(redBlend, greenBlend,
blueBlend));
            }
        };

        seekRed.setOnSeekBarChangeListener(sbRed);

        OnSeekBarChangeListener sbBlue = new OnSeekBarChangeListener() {
```

Java

```
@Override
public void onStopTrackingTouch(SeekBar seekBar) {
    // TODO Auto-generated method stub

}

@Override
public void onStartTrackingTouch(SeekBar seekBar) {
    // TODO Auto-generated method stub

}

@Override
public void onProgressChanged(SeekBar seekBar, int progress2,
    boolean fromUser) {
    // TODO Auto-generated method stub
    String blueText = Integer.toString(progress2);
    blue.setText(blueText);
    blue.setBackgroundColor(Color.rgb(0, 0, progress2));
    blueBlend = progress2;
    blend.setBackgroundColor(Color.rgb(redBlend, greenBlend,
blueBlend));
}

};
seekBlue.setOnSeekBarChangeListener(sbBlue);

OnSeekBarChangeListener sbGreen = new OnSeekBarChangeListener() {

    @Override
    public void onStopTrackingTouch(SeekBar seekBar) {
        // TODO Auto-generated method stub

    }

    @Override
    public void onStartTrackingTouch(SeekBar seekBar) {
        // TODO Auto-generated method stub

    }

    @Override
    public void onProgressChanged(SeekBar seekBar, int progress3,
        boolean fromUser) {
        // TODO Auto-generated method stub
        String greenText = Integer.toString(progress3);
        green.setText(greenText);
        green.setBackgroundColor(Color.rgb(0, progress3, 0));
        greenBlend = progress3;
        blend.setBackgroundColor(Color.rgb(redBlend, greenBlend,
blueBlend));
    }

};
seekGreen.setOnSeekBarChangeListener(sbGreen);

}
```

Java

```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
}
```

Java

```
public class table extends Activity {
    Button btOne, btTwo, btThree, btFour, btFive, btSix, btSeven,
    btEight, btNine;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        // TODO Auto-generated method stub
        super.onCreate(savedInstanceState);
        setContentView(R.layout.table);

        btOne = (Button) findViewById(R.id.btnOne);
        btTwo = (Button) findViewById(R.id.btnTwo);
        btThree = (Button) findViewById(R.id.btnThree);
        btFour = (Button) findViewById(R.id.btnFour);
        btFive = (Button) findViewById(R.id.btnFive);
        btSix = (Button) findViewById(R.id.btnSix);
        btSeven = (Button) findViewById(R.id.btnSeven);
        btEight = (Button) findViewById(R.id.btnEight);
        btNine = (Button) findViewById(R.id.btnNine);

        btOne.setText("What Is 1 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btTwo.setText("What Is 2 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btThree.setText("What Is 3 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btFour.setText("What Is 4 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btFive.setText("What Is 5 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSix.setText("What Is 6 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSeven.setText("What Is 7 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btEight.setText("What Is 8 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btNine.setText("What Is 9 " + bridge.operatorSelected + " "
+ bridge.numberSelected);

    };
    //BUTTON ONE
    Button.OnClickListener bOne = new Button.OnClickListener() {
        @Override
        public void onClick(View arg0) {

            // TODO Auto-generated method stub
            btOne.setText("1 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected + 1));
            if(bridge.operatorSelected.contains("A")){
                btOne.setText("1 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected + 1));
            }else if(bridge.operatorSelected.contains("S")){
```

Java

```
        btOne.setText("1 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected - 1));
    }else if(bridge.operatorSelected.contains("M")){
        btOne.setText("1 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected * 1));
    }else if(bridge.operatorSelected.contains("D")){
        btOne.setText("1 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected / 1) );
    }
    btTwo.setText("What Is 2 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    btThree.setText("What Is 3 " + bridge.operatorSelected + "
" + bridge.numberSelected);
    btFour.setText("What Is 4 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    btFive.setText("What Is 5 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    btSix.setText("What Is 6 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    btSeven.setText("What Is 7 " + bridge.operatorSelected + "
" + bridge.numberSelected);
    btEight.setText("What Is 8 " + bridge.operatorSelected + "
" + bridge.numberSelected);
    btNine.setText("What Is 9 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    }
};
```

```
//BUTTON TWO
Button.OnClickListener bTwo = new Button.OnClickListener() {
    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        if(bridge.operatorSelected.contains("A")){
            btTwo.setText("2 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected + 2));
        }else if(bridge.operatorSelected.contains("S")){
            btTwo.setText("2 " + bridge.operatorSelected + "
" + bridge.numberSelected + " = " + (bridge.numberSelected - 2));
        }else if(bridge.operatorSelected.contains("M")){
            btTwo.setText("2 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected * 2));
        }else if(bridge.operatorSelected.contains("D")){
            btTwo.setText("2 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected / 2));
        }
        btOne.setText("What Is 1 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btThree.setText("What Is 3 " + bridge.operatorSelected + "
" + bridge.numberSelected);
```

Java

```
        btFour.setText("What Is 4 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btFive.setText("What Is 5 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSix.setText("What Is 6 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSeven.setText("What Is 7 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btEight.setText("What Is 8 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btNine.setText("What Is 9 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    }
};

//BUTTON THREE
Button.OnClickListener bThree = new Button.OnClickListener() {
    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        if(bridge.operatorSelected.contains("A")){
            btThree.setText("3 " + bridge.operatorSelected + " "
+ bridge.numberSelected + " = " + (bridge.numberSelected + 3));
        }else if(bridge.operatorSelected.contains("S")){
            btThree.setText("3 " + bridge.operatorSelected +
" " + bridge.numberSelected + " = " + (bridge.numberSelected - 3));
        }else if(bridge.operatorSelected.contains("M")){
            btThree.setText("3 " + bridge.operatorSelected + " "
+ bridge.numberSelected + " = " + (bridge.numberSelected * 3));
        }else if(bridge.operatorSelected.contains("D")){
            btThree.setText("3 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected / 3));
        }
        btOne.setText("What Is 1 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btTwo.setText("What Is 2 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btFour.setText("What Is 4 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btFive.setText("What Is 5 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSix.setText("What Is 6 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSeven.setText("What Is 7 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btEight.setText("What Is 8 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btNine.setText("What Is 9 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
```

Java

```
    }

};

//BUTTON FOUR
Button.OnClickListener bFour = new Button.OnClickListener() {
    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        if(bridge.operatorSelected.contains("A")){
            btFour.setText("4 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected + 4));
        }else if(bridge.operatorSelected.contains("S")){
            btFour.setText("4 " + bridge.operatorSelected +
" " + bridge.numberSelected + " = " + (bridge.numberSelected - 4));
        }else if(bridge.operatorSelected.contains("M")){
            btFour.setText("4 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected * 4));
        }else if(bridge.operatorSelected.contains("D")){
            btFour.setText("4 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected / 4));
        }
        btOne.setText("What Is 1 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btTwo.setText("What Is 2 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btThree.setText("What Is 3 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btFive.setText("What Is 5 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSix.setText("What Is 6 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSeven.setText("What Is 7 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btEight.setText("What Is 8 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btNine.setText("What Is 9 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    }

};

//BUTTON FIVE
Button.OnClickListener bFive = new Button.OnClickListener() {
    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        if(bridge.operatorSelected.contains("A")){
```

Java

```
        btFive.setText("5 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected + 5));
        }else if(bridge.operatorSelected.contains("S")){
            btFive.setText("5 " + bridge.operatorSelected +
" " + bridge.numberSelected + " = " + (bridge.numberSelected - 5));
        }else if(bridge.operatorSelected.contains("M")){
            btFive.setText("5 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected * 5));
        }else if(bridge.operatorSelected.contains("D")){
            btFive.setText("5 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected / 5));
        }
        btOne.setText("What Is 1 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btTwo.setText("What Is 2 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btThree.setText("What Is 3 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btFour.setText("What Is 4 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSix.setText("What Is 6 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSeven.setText("What Is 7 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btEight.setText("What Is 8 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btNine.setText("What Is 9 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    }

};

//BUTTON SIX
Button.OnClickListener bSix = new Button.OnClickListener() {
    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        if(bridge.operatorSelected.contains("A")){
            btSix.setText("6 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected + 6));
        }else if(bridge.operatorSelected.contains("S")){
            btSix.setText("6 " + bridge.operatorSelected + "
" + bridge.numberSelected + " = " + (bridge.numberSelected - 6));
        }else if(bridge.operatorSelected.contains("M")){
            btSix.setText("6 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected * 6));
        }else if(bridge.operatorSelected.contains("D")){
            btSix.setText("6 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected / 6));
        }
        btOne.setText("What Is 1 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    }
};
```


Java

```
        btTwo.setText("What Is 2 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btThree.setText("What Is 3 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btFour.setText("What Is 4 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btFive.setText("What Is 5 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSeven.setText("What Is 7 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btEight.setText("What Is 8 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btNine.setText("What Is 9 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    }

};

//BUTTON SEVEN
Button.OnClickListener bSeven = new Button.OnClickListener() {
    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        if(bridge.operatorSelected.contains("A")){
            btSeven.setText("7 " + bridge.operatorSelected + " "
+ bridge.numberSelected + " = " + (bridge.numberSelected + 7));
        }else if(bridge.operatorSelected.contains("S")){
            btSeven.setText("7 " + bridge.operatorSelected + " "
" " + bridge.numberSelected + " = " + (bridge.numberSelected - 7));
        }else if(bridge.operatorSelected.contains("M")){
            btSeven.setText("7 " + bridge.operatorSelected + " "
+ bridge.numberSelected + " = " + (bridge.numberSelected * 7));
        }else if(bridge.operatorSelected.contains("D")){
            btSeven.setText("7 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected / 7));
        }
        btOne.setText("What Is 1 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btTwo.setText("What Is 2 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btThree.setText("What Is 3 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btFour.setText("What Is 4 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btFive.setText("What Is 5 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSix.setText("What Is 6 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btEight.setText("What Is 8 " + bridge.operatorSelected + "
" + bridge.numberSelected);
```

Java

```
        btNine.setText("What Is 9 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    }

};

//BUTTON EIGHT
Button.OnClickListener bEight = new Button.OnClickListener() {
    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        if(bridge.operatorSelected.contains("A")){
            btEight.setText("8 " + bridge.operatorSelected + " "
+ bridge.numberSelected + " = " + (bridge.numberSelected + 8));
        }else if(bridge.operatorSelected.contains("S")){
            btEight.setText("8 " + bridge.operatorSelected + " "
" " + bridge.numberSelected + " = " + (bridge.numberSelected - 8));
        }else if(bridge.operatorSelected.contains("M")){
            btEight.setText("8 " + bridge.operatorSelected + " "
+ bridge.numberSelected + " = " + (bridge.numberSelected * 8));
        }else if(bridge.operatorSelected.contains("D")){
            btEight.setText("8 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected / 8));
        }
        btOne.setText("What Is 1 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btTwo.setText("What Is 2 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btThree.setText("What Is 3 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btFour.setText("What Is 4 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btFive.setText("What Is 5 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSix.setText("What Is 6 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSeven.setText("What Is 7 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btNine.setText("What Is 9 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
    }

};

//BUTTON NINE
Button.OnClickListener bNine = new Button.OnClickListener() {
    @Override
    public void onClick(View arg0) {
        // TODO Auto-generated method stub
        if(bridge.operatorSelected.contains("A")){
```

Java

```
        btNine.setText("9 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected + 9));
        }else if(bridge.operatorSelected.contains("S")){
            btNine.setText("9 " + bridge.operatorSelected +
" " + bridge.numberSelected + " = " + (bridge.numberSelected - 9));
        }else if(bridge.operatorSelected.contains("M")){
            btNine.setText("9 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected * 9));
        }else if(bridge.operatorSelected.contains("D")){
            btNine.setText("9 " + bridge.operatorSelected + " " +
bridge.numberSelected + " = " + (bridge.numberSelected / 9));
        }
        btOne.setText("What Is 1 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btTwo.setText("What Is 2 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btThree.setText("What Is 3 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btFour.setText("What Is 4 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btFive.setText("What Is 5 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSix.setText("What Is 6 " + bridge.operatorSelected + " "
+ bridge.numberSelected);
        btSeven.setText("What Is 7 " + bridge.operatorSelected + "
" + bridge.numberSelected);
        btEight.setText("What Is 8 " + bridge.operatorSelected + "
" + bridge.numberSelected);

    }
};
}
```

Java

```
/* Program written by: Charles Reid
   Program written on: 2/3/2012
   Purpose: */
import java.util.Scanner;
public class Assign2_Reid {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);

        for ( int i = 0; i < args.length; i++)
            System.out.println(args[i]);

            if (args.length != 3) {
                System.out.println("Please enter an equation");
            }

            int result = 3;

        switch (args[1].charAt(0)) {
            case '+': result = Integer.parseInt(args[0]) +
                Integer.parseInt(args[2]);
                break;
            case '-': result = Integer.parseInt(args[0]) -
                Integer.parseInt(args[2]);
                break;
            case '*': result = Integer.parseInt(args[0]) *
                Integer.parseInt(args[2]);
                break;
            case '/': result = Integer.parseInt(args[0]) /
                Integer.parseInt(args[2]);
                break;
            case '%': result = Integer.parseInt(args[0]) %
                Integer.parseInt(args[2]);

        }

        System.out.println(args[0] + ' ' + args[1] + ' ' + args[2] + " =
" + result);
```

Java

```
}
```

```
}
```

Java

```
import java.util.Scanner;

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

        Scanner input = new Scanner(System.in);

        System.out.print("Enter an amount in double");

        double amount = input.nextDouble();

        int remainingAmount = (int)(amount * 100);

        int numberOfDollars = remainingAmount / 100;
        remainingAmount = remainingAmount % 100;

        int numberOfQuarters = remainingAmount / 25;
        remainingAmount = remainingAmount % 25;

        int numberOfDimes = remainingAmount / 10;
        remainingAmount = remainingAmount % 10;

        int numberOfNickles = remainingAmount / 5;
        remainingAmount = remainingAmount % 5;

        int numberOfPennies = remainingAmount;

        System.out.println("Your Amount" + amount + "consist of \n" +
            "\t" + numberOfDollars + " dollars\n" +
            "\t" + numberOfQuarters + " quarters\n" +
            "\t" + numberOfDimes + " dimes\n" +
            "\t" + numberOfNickles + " nickles\n" +
            "\t" + numberOfPennies + " pennies");

    }
}
```