

Lab:7

Q1) Simple Calculator

Java Code:

```
Button add=(Button)findViewById(R.id.main_button_plus);
Button sub=(Button)findViewById(R.id.main_button_minus);
Button mul=(Button)findViewById(R.id.main_button_mul);
Button div=(Button)findViewById(R.id.main_button_div);
Button sq=(Button)findViewById(R.id.main_button_sq);
Button pow=(Button)findViewById(R.id.main_button_pow);
Button eql=(Button)findViewById(R.id.main_button_eq);
Button clr=(Button)findViewById(R.id.main_button_clr);
tvnum=(EditText)findViewById(R.id.main_editText_num);

clr.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        tvnum.setText("");
        num=0.0;
    }
});

//Equal
eql.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        switch (stat){
            case 'a':num+=Double.parseDouble(tvnum.getText().toString());break;
            case 's':num -= Double.parseDouble(tvnum.getText().toString());break;
            case 'm':num *= Double.parseDouble(tvnum.getText().toString());break;
            case 'd':num /= Double.parseDouble(tvnum.getText().toString());break;
        }

        tvnum.setText(""+num);
    }
});

//Add
add.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        stat='a';
        num+=Integer.parseInt(tvnum.getText().toString());
        tvnum.setText("");
    }
});

//Sub
sub.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        stat = 's';
        num += Integer.parseInt(tvnum.getText().toString());
        tvnum.setText("");
    }
});

//Mul
mul.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        stat = 'm';
```

```

        num+=Integer.parseInt(tvnum.getText().toString());
        tvnum.setText("");
    }
});

//Div
div.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        stat = 'd';
        num+=Integer.parseInt(tvnum.getText().toString());
        tvnum.setText("");
    }
});

//Sq
sq.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        tvnum.setText("" + Math.sqrt(Double.parseDouble(tvnum.getText().toString())));
    }
});

//Pow
pow.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        tvnum.setText("" + Math.pow(Double.parseDouble(tvnum.getText().toString()),
2));
    }
});
});

```

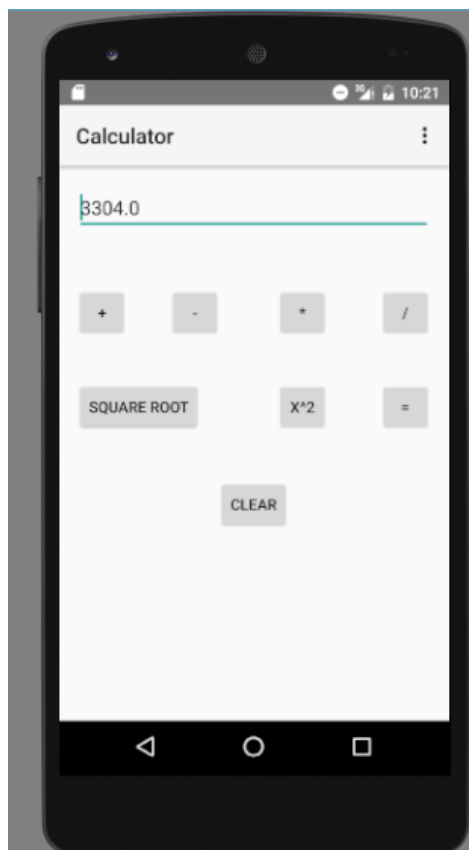


Figure 1: Screen Shot