

# LAB 1: Simple UI

## 1. Building Simple User Interface

- Replace **ConstraintLayout** with **AbsoluteLayout**
- Add an id to the current TextView as “**textView**”

## 2. UI event (Click a button, TextView message is changed to “Test”)

- Note that new API no need to cast the findViewById.

```
public class MainActivity extends AppCompatActivity {  
  
    TextView tv;  
    Button btn;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
  
        tv = (TextView) findViewById(R.id.textView);  
        btn = (Button) findViewById(R.id.button);  
  
        btn.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View v) {  
                tv.setText("Test");  
            }  
        });  
    }  
}
```

## 3. Add a new Plain Text (EditText) view as EditText edt

- Click to change **tv.setText(“Test”)** to the string getting from **tv.setText(edt.getText().ToString());**

#### 4. Exercise

1. Create an app to convert Thai baht to US dollar (35 baht = 1 \$)
  - Input Thai baht value to EditText
  - Show the US dollar at TextView
2. Create an app with two input
  - 2.1. EditText1 = start number (x)
  - 2.2. EditText2 = end number (y)
  - 2.3. TextView = Show a string "A" whose size = y-x
    - 2.3.1.E.g., x = 1, y=5, result = "AAAA"
  - 2.4. Set value of y to 50,000 and observe what happen after running your app?