

Lab03 实验报告

课后作业:

1. 学会了在后台代码中实现对 Button 的监听事件

学会了动态添加 Button 并实现监听

2. 拨号界面代码:

```
public class EX03homeworkActivity extends Activity {
    /** Called when the activity is first created. */

    private EditText test;
    private Context con;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        con = this;
        /**
         * 动态添加编辑文本框
         */
        test = new EditText(con);
        test.setText("");
        test.setId(11);
        /**
         * 用TableLayout动态添加拨号键盘
         */
        TableLayout tab = new TableLayout(this);
        tab.setStretchAllColumns(false);
        List<String> list = new ArrayList<String>();
        /**
         * 将键盘中的数字或字符添加到list数组中
         */
        for(int i=1; i < 13; i++)
        {
            if(i < 10) list.add(""+i);
            else if(i == 10) list.add("*");
            else if(i == 11) list.add("0");
            else list.add("#");
        }

        tab.addView(test);//为tab添加View对象
```

```

int size = list.size();
int display = 3;
int total = (size + display - 1) / display;
List<String> tmp = null;
/**
 * 将list中的字符排布到table中
 */
for(int i = 0; i < total; i++)
{
    TableRow row = new TableRow(this);
    if(i==0) {
        if(size < display) {
            tmp = list;
        }else{
            tmp = list.subList(0, display);
        }

/**
 * 为每个table中的位置添加Button，并设置监听事件
 */
        for(int x = 0; x < tmp.size(); x++){
            Button Btn = new Button(this);
            Btn.setText(tmp.get(x));
            ButtonListener bnl = new ButtonListener();
            Btn.setOnClickListener(bnl);
            row.addView(Btn);
        }

    }else{
        if(size - i * display < display) {
            tmp = list.subList(i*display, size-1);
        }else{
            tmp = list.subList(i*display, i*display+display);
        }
        for(int x = 0; x < tmp.size(); x++) {
            Button Btn = new Button(this);
            Btn.setText(tmp.get(x));
            Btn.setWidth(LayoutParams.WRAP_CONTENT);
            ButtonListener bnl = new ButtonListener();
            int id = Btn.getId();
            Btn.setOnClickListener(bnl);
            row.addView(Btn);
        }
    }
}

```

```

        tab.addView(row);
    }
    setContentView(tab);
}

public final class ButtonListener implements View.OnClickListener {
    public void onClick(View v) {
        //当点击键盘Button时，将字符添加到编辑文本框中
        test.setText(test.getText().toString() +
            ((Button)v).getText().toString());
    }
}
}
}

```

