

插入 button

- Text 為 test_bin_write
- On Click 為 btn_test1

插入 button

- Text 為 test_bin_read
- On Click 為 btn_test2

插入 TextView

- ID 為 textView2



read/write SD,需要設權限 AndroidManifest.xml

```
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
```

MainActivity.java 加入以下 code,按 ctrl+shift+o 自動補 import

```
public void btn_test1(View v) {  
    //do not hardcode /sdcard  
    File sdcard_path=Environment.getExternalStorageDirectory();  
    File fname = new File(sdcard_path,"test.bin");  
//    File fname= new File(Environment.getExternalStorageDirectory()+"/test.txt");  
  
    ByteArrayOutputStream baos1=null;
```

```
FileOutputStream fos1=null;

int i1;
byte[] buf1 = new byte[256];

for (i1=0;i1<256;i1++){
    if (i1<128) //u8 to s8
    {
        buf1[i1]=(byte)i1;
    }
    else
    {
        buf1[i1]=(byte)(i1-256);
    }
}

//copy byte_array to byte_array_stream;
baos1= new ByteArrayOutputStream();
baos1.write(buf1, 0, 256);

try {
    fos1 = new FileOutputStream(fname,false);
} catch (IOException e) {
    Toast.makeText(getApplicationContext(), "err,new", 100).show();
}

try{
    baos1.writeTo(fos1);
}catch (IOException e) {
    Toast.makeText(getApplicationContext(), "err,baos1.writeTo", 100).show();
}
```

```

try{
    fos1.flush();
    fos1.close();
}catch (IOException e) {
    Toast.makeText(getApplicationContext(), "err,fos1.close", 100).show();
}
Toast.makeText(getApplicationContext(), "bin write ok", 100).show();
}
public void btn_test2(View v) {
    //do not hardcode /sdcard
    File sdcard_path=Environment.getExternalStorageDirectory();
    File fname = new File(sdcard_path,"test.bin");
//    File fname= new File(Environment.getExternalStorageDirectory()+"/test.txt");

    String st1;
    FileInputStream fis1 = null;
    int i1 = 0;
    int i2 =0;
    int filesize1,readsize = 0;
    TextView tv2;
    byte[] buf2;

    //open file
    try {
        fis1=new FileInputStream(fname);
    } catch (IOException e) {
        Toast.makeText(getApplicationContext(), "err,new", 100).show();
    }

    //loacat memory
    filesize1=(int) fname.length();
    buf2 = new byte[filesize1];
    //read
    try{
        i2=fis1.read(buf2, 0, filesize1);

```

```
}
catch (IOException e) {
    Toast.makeText(getApplicationContext(), "err,fis1.read", 100).show();
}

//check result
st1=Integer.toString(i2)+":";
for (i1=0;i1<filesize1;i1++)
{
    st1=st1+" "+Integer.toString(buf2[i1]);
}

tv2=(TextView)findViewById(R.id.textView2);
tv2.setText(st1);
//close
try{
    fis1.close();
}catch (IOException e) {
    Toast.makeText(getApplicationContext(), "err,fis1.close", 100).show();
}
Toast.makeText(getApplicationContext(), "bin read ok", 100).show();
}
```