U01_201_snippet

main.xml

```
<!-- TO DO -->
<TextView
   android:id="@+id/textView2"
   android:layout width="match parent"
   android:layout_height="wrap_content"
   android:layout weight="1"
   android:text="@string/exchangerate"/>
<EditText
   android:id="@+id/etRate"
   android:layout width="match parent"
   android:layout_height="wrap_content"
   android:layout_weight="1"
   android:ems="10"
  android:inputType="numberDecimal"
   android:text=""/>
<TextView
   android:id="@+id/textView3"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:layout_weight="1"
   android:text="@string/ntd"/>
<EditText
   android:id="@+id/etNTD"
   android:layout_width="match_parent"
   android:layout height="wrap content"
   android:layout weight="1"
   android:ems="10"
   android:inputType="numberDecimal"
   android:text=""/>
<Button
   android:id="@+id/btnCompute"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:layout_weight="1"
   android:text="@string/calc_btn"/>
<TextView
   android:id="@+id/tvResult"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:layout_weight="1"
   android:text="@string/usd_result"/>
```

```
### GDD02.java (Activity)
  // TO DO
  //取得 UI
  fieldExchangeRate = findViewByld(R.id.etRate);
  fieldNTD = findViewById(R.id.etNTD);
  calcbutton = findViewById(R.id.btnCompute);
  tvResult = findViewById(R.id.tvResult);
  //計算
  calcbutton.setOnClickListener(new View.OnClickListener() {
   @Override
   public void onClick(View view) {
    double rate = Double.parseDouble(fieldExchangeRate.getText().toString());
    double ntd = Double.parseDouble(fieldNTD.getText().toString());
    double usd = ntd/rate;//美金 = 台幣/匯率(多少台幣/一美元)
    String msg = getString(R.string.usd_result)+ String.format("%.2f", usd);
    tvResult.setText(msg);
   }
  });
  //取得匯率預設值
  SharedPreferences sp = getSharedPreferences(PREF ExchangeRate, MODE PRIVATE);
  String spRate = sp.getString(PREF_ExchangeRate,"");
  fieldExchangeRate.setText(spRate);
  protected void onPause()
  { super.onPause();
  SharedPreferences settings = getSharedPreferences(PREF_ExchangeRate, 0);
  //*** 會發生Null Point 修正
  settings.edit().putString( PR
       EF ExchangeRate,
fieldExchangeRate.getText()==null?"":fieldExchangeRate.getText().toString()).commit();
 }
```