

Correction TD03

Matière : DEVELOPPEMENT D'APPLICATIONS MOBILES NATIVES

Classe : SEM21

strings.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">CombienEnDT</string>
    <string name="prix">Prix</string>
    <string name="devise">Devise</string>
    <string name="combien">Combien en DT?</string>
    <string name="dt">DT</string>
    <string-array name="devise">
        <item>Dollar</item>
        <item>Euro</item>
        <item>Yen</item>
    </string-array>
</resources>
```

activity_main.xml

```
<TextView
    android:id="@+id/tvPrix"
    android:text="@string/prix" />
<TextView
    android:id="@+id/tvDevise"
    android:text="@string/devise" />
<Spinner
    android:id="@+id/spDevise"
    android:entries="@array/devise" />
<Button
    android:id="@+id/btnCombien"
    android:text="@string/combien" />
<TextView
    android:id="@+id/tvPrixDT"
    android:text="@string/prix" />
<TextView
    android:id="@+id/textView5"
    android:text="@string/dt" />
<Button
    android:id="@+id/btnTaux"
    android:text="@string/taux" />
```

MainActivity.java

```
package com.dt;
//imports
public class MainActivity extends Activity {
    private EditText edPrix;
    private Spinner spDevise;
    private Button btnCombien;
    private EditText edPrixDT;
```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    init();
}
private void init() {
    edPrix = findViewById(R.id.edPrix);
    spDeviser = findViewById(R.id.spDeviser);
    btnCombien = findViewById(R.id.btnCombien);
    edPrixDT = findViewById(R.id.edPrixDT);
    btnTaux = findViewById(R.id.btnTaux);
    ajouterEcouteurs();
}
private void ajouterEcouteurs() {
    btnCombien.setOnClickListener(new OnClickListener() {
        @Override
        public void onClick(View v) {
            combien();
        }
    });
}
protected void combien() {
    if(!edPrix.getText().toString().isEmpty()){
        float p = Float.parseFloat(edPrix.getText().toString());
        float t = 0;
        switch (spDeviser.getSelectedItemPosition()) {
            case 0:
                t = 1.979f;
                break;
            case 1:
                t = 2.134f;
                break;
            case 2:
                t = 16.669f;
                break;
        }
        float pDT = p * t;
        String message="";
        if (pDT<100)
            message="Pas cher";
        else if (pDT<1000)
            message="Cher";
        else
            message=" Très cher";

        Toast t = Toast.makeText(getApplicationContext(), message,
                                   Toast.LENGTH_LONG);
        t.show();

        edPrixDT.setText(String.format("%.2f", pDT) );
    }
}
}
}

```