

Correction TP04

Matière : ATELIER DEVELOPPEMENT MOBILE 1

Classes : SEM21

Pays

```
package com.pays;
```

```
//imports
```

```
public class MainActivity extends Activity {
    private EditText edPays;
    private Button btnAjouter;
    private Button btnVider;
    private ListView lstPays;
    private ArrayAdapter<String> adpPays;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        init();
    }
    private void init() {
        edPays = (EditText) findViewById(R.id.edPays);
        btnAjouter = (Button) findViewById(R.id.btnAjouter);
        btnVider = (Button) findViewById(R.id.btnVider);
        lstPays = (ListView) findViewById(R.id.lstPays);
        lier();
        ajouterEcouteur();
    }
    private void lier() {
        adpPays = new ArrayAdapter<String>(this, android.R.layout.simple_list_item_1);
        lstPays.setAdapter(adpPays);
    }
    private void ajouterEcouteur() {
        btnAjouter.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View arg0) {
                ajouter();
            }
        });
        btnVider.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View arg0) {
                vider();
            }
        });
    }
}
```

```

lstpays.setOnItemClickListener(new OnItemClickListener() {

    @Override
    public void onItemClick(AdapterView<?> arg0, View arg1, int arg2, long arg3) {
        afficher(arg2);
    }
});

private void ajouter() {
    String pays = edpays.getText().toString();
    adapts.add(pays);
    edpays.setText("");
}

protected void vider() {
    adapts.clear();
}

protected void afficher(int indice) {
    String pays = adapts.getItem(indice);
    Toast.makeText(getApplicationContext(), pays, Toast.LENGTH_LONG).show();
}
}

```

Animaux

```
package com.animaux;
```

```
public class Animal {
    private String nom;
    private int idImage;
    private String poids;

    public Animal(String nom, int idImage, String poids) {
        super();
        this.nom = nom;
        this.idImage = idImage;
        this.poids = poids;
    }

    public String getNom() {
        return nom;
    }

    public int getIdImage() {
        return idImage;
    }

    public String getPoids() {
        return poids;
    }
}
```

```
package com.animaux;
//imports
public class MainActivity extends Activity {
    private TextView tvNom;
    private ImageView imgAnimal;
    private TextView tvPoids;
    private ImageButton btnPrecedent;
    private ImageButton btnSuivant;
    private int indice;
    private Animal[] tAnimal = new Animal[] { new Animal("Eléphant", R.drawable.elephant, "5-7 tonnes"),
        new Animal("Lion", R.drawable.lion, "375 kg"), new Animal("Panda", R.drawable.panda, "160 kg"),
        new Animal("Renard", R.drawable.renard, "6 kg"), new Animal("Toucan", R.drawable.toucan, "540 à 860 g") };

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        init();
    }
}
```

```

private void init() {
    tvNom = (TextView) findViewById(R.id.tvNom);
    imgAnimal = (ImageView) findViewById(R.id.imgAnimal);
    tvPoids = (TextView) findViewById(R.id.tvPoids);
    btnPrecedent = (ImageButton) findViewById(R.id.btnPrecedent);
    btnSuivant = (ImageButton) findViewById(R.id.btnSuivant);
    indice = 0;
    actualiser();
    ajouterEcouteurs();
}

private void ajouterEcouteurs() {
    btnPrecedent.setOnClickListener(new OnClickListener() {

        @Override
        public void onClick(View arg0) {
            precedent();
        }
    });
    btnSuivant.setOnClickListener(new OnClickListener() {

        @Override
        public void onClick(View arg0) {
            suivant();
        }
    });
}

protected void precedent() {
    if (indice > 0)
        indice--;
    else
        indice = tAnimal.length - 1;
    actualiser();
}

protected void suivant() {
    indice = (indice + 1) % tAnimal.length;
    actualiser();
}

private void actualiser() {
    tvNom.setText(tAnimal[indice].getNom());
    imgAnimal.setImageResource(tAnimal[indice].getIdImage());
    tvPoids.setText(tAnimal[indice].getPoids());
}
}

```