Correction TP08

Matière : ATELIER DEVELOPPEMENT MOBILE 1	Classes : SEM21

Exercice 1

```java
package ex1;
public class MainActivity extends AppCompatActivity {
    private Button btnComposer;
    private Button btnPageYoutube;

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

    private void init() {
        btnComposer=findViewById(R.id.btnComposer);
        btnPageYoutube=findViewById(R.id.btnPageYoutube);
        ajouterEcouteurs();
    }

    private void ajouterEcouteurs() {
        btnComposer.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                composerNumeroTel();
            }
        });
        btnPageYoutube.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                afficherPageYoutube();
            }
        });
    }

    private void composerNumeroTel() {
        Uri tel = Uri.parse("tel:216444555");
        Intent i = new Intent(Intent.ACTION_DIAL, tel);
        startActivity(i);
    }

    private void afficherPageYoutube() {
        String url = "https://www.youtube.com/watch?v=4AG-h-zoY4g";
        Intent i = new Intent(Intent.ACTION_VIEW);
        i.setData(Uri.parse(url));
        startActivity(i);
    }
}
```

Exercice 2

```java
package com.ex2;
public class MainActivity extends Activity {
  private EditText edTexte;
  private Button btnPasser1;
  private Button btnPasser2;
  private CheckBox check;
  private SeekBar seek;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    init();
  }
  private void init() {
    edTexte = (EditText) findViewById(R.id.edTexte);
    btnPasser1 = (Button) findViewById(R.id.btnPasser1);
    btnPasser2 = (Button) findViewById(R.id.btnPasser2);
    check = (CheckBox) findViewById(R.id.check);
    seek = (SeekBar) findViewById(R.id.seek);
    ajouterEcouteur();
  }
  private void ajouterEcouteur() {
    btnPasser1.setOnClickListener(new OnClickListener() {
      @Override
      public void onClick(View v) {
        passer1();
      }
    });
    btnPasser2.setOnClickListener(new OnClickListener() {
      @Override
      public void onClick(View v) {
        passer2();
      }
    });
  }
  protected void passer1() {
    //Appel implicite du Bundle
    Intent i = new Intent(this, App1.class);
    i.putExtra("nomprénom", edTexte.getText().toString());
    i.putExtra("motorisé", check.isChecked());
    i.putExtra("age", seek.getProgress());
    startActivity(i);
  }
  protected void passer2() {
    //Appel explicite du Bundle
    Intent i = new Intent(this, App2.class);
    Bundle b = new Bundle();
    b.putString("np", edTexte.getText().toString());
    b.putBoolean("motorisé", check.isChecked());
    b.putInt("age", seek.getProgress());
    i.putExtras(b);
    startActivity(i);
  }
}
package com.ex1;
public class App1 extends Activity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.app1);
    init();
```

```java
    }
  private void init() {
    recupererParam();
  }
private void recupererParam() {
    Intent i = getIntent();
    String np = i.getStringExtra("nomprénom");
    Boolean motorise = i.getBooleanExtra("motorisé", false);
    int age = i.getIntExtra("age", 0);
    String message = "Votre nom est: " + np + "\n";
    message += "Etes-vous motorisés: " + motorise + "\n";
    message += "Votre age est: " + age + "\n";
    Toast t = Toast.makeText(this, message, Toast.LENGTH_LONG);
    t.show();
  }
}
package com.ex1;
public class App2 extends Activity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.app2);
    init();
  }
  private void init() {
    recupererParam();
  }
  private void recupererParam() {
    Intent i = getIntent();
    Bundle bundle = i.getExtras();
    String np = bundle.getString("nomprénom");
    Boolean motorise = bundle.getBoolean("motorisé");
    int age = bundle.getInt("age");
    String message = "Votre nom est: " + np + "\n";
    message += "Etes-vous motorisés: " + motorise + "\n";
    message += "Votre age est: " + age + "\n";
    Toast t = Toast.makeText(this, message, Toast.LENGTH_LONG);
    t.show();
  }
}
```

Exercice 3

```java
package com.ex3;
public class Personne  {
  private String nom;
  private String prenom;
  private int age;
  public Personne(String nom, String prenom, int age) {
    super();
    this.nom = nom;
    this.prenom = prenom;
    this.age = age;
  }
  public String getNom() {    return nom;  }
  public String getPrenom() {    return prenom;  }
  public int getAge() {    return age;  }
  @Override
  public String toString() {
    return nom+" "+prenom+"("+age+")";
  }
}
package com.res;
public class MainActivity extends Activity {
  private Button btnNouveau;
  private ListView lstPersonne;
  public static final int NOUVEAU=1;
  private ArrayAdapter<Personne> adpPersonne;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    init();
  }
  private void init() {
    btnNouveau= (Button) findViewById(R.id.btnNouveau);
    lstPersonne= (ListView) findViewById(R.id.lstPersonne);
    adpPersonne= new ArrayAdapter<Personne>(this, android.R.layout.simple_list_item_1);
    lstPersonne.setAdapter(adpPersonne);
    ajouterEcouteur();
  }
  private void ajouterEcouteur() {
    btnNouveau.setOnClickListener(new OnClickListener() {
      @Override
      public void onClick(View arg0) {
        nouveau();
      }
    });
  }
  protected void nouveau() {
    Intent i = new Intent(MainActivity.this,Nouveau.class);
    startActivityForResult(i, NOUVEAU);
  }
  @Override
  protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    if(requestCode==NOUVEAU){
      if(resultCode==RESULT_OK){
        String nom = data.getStringExtra("nom");
        String prenom = data.getStringExtra("prenom");
        int age = data.getIntExtra("age",0);
        Personne p = new Personne(nom, prenom, age);
        adpPersonne.add(p);
      }else{
        Toast t = Toast.makeText(this, "L'utilisateur a annulé!", Toast.LENGTH_LONG);
```

```java
        t.show();
      }
    }
    super.onActivityResult(requestCode, resultCode, data);
  }
}
package com.res;
public class Nouveau extends Activity {
  private EditText edNom;
  private EditText edPrenom;
  private EditText edAge;
  private Button btnValider;
  private Button btnAnnuler;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.nouveau);
    init();
  }
  private void init() {
    edNom = (EditText) findViewById(R.id.edNom);
    edPrenom = (EditText) findViewById(R.id.edPrenom);
    edAge = (EditText) findViewById(R.id.edAge);
    btnValider = (Button) findViewById(R.id.btnValider);
    btnAnnuler = (Button) findViewById(R.id.btnAnnuler);
    ajouterEcouteur();
  }
  private void ajouterEcouteur() {
    btnValider.setOnClickListener(new OnClickListener() {
      @Override
      public void onClick(View arg0) {
        valider();
      }
    });
    btnAnnuler.setOnClickListener(new OnClickListener() {
      @Override
      public void onClick(View arg0) {
        annuler();
      }
    });
  }
  protected void valider() {
    if (!edAge.getText().toString().isEmpty()) {
      Intent i = new Intent();
      i.putExtra("nom", edNom.getText().toString());
      i.putExtra("prenom", edPrenom.getText().toString());
      i.putExtra("age", Integer.parseInt(edAge.getText().toString()));
      setResult(RESULT_OK, i);
      finish();
    }else{
      Toast t = Toast.makeText(this, "Taper un âge SVP!", Toast.LENGTH_LONG);
      t.show();
    }
  }
  protected void annuler() {
    setResult(RESULT_CANCELED);
    finish();
  }
}
```