



CORRECTION TP02

Matière : ATELIER DEVELOPPEMENT MOBILES 1

Classes : SEM21

Meteo**MainActivity.java**

```
package com.meteo;
//imports
public class MainActivity extends Activity {
    private RadioGroup rdgSaison;
    private CheckBox chSoleil;
    private CheckBox chNuages;
    private CheckBox chPluie;
    private Button btnAfficher;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        init();
    }
    private void init() {
        rdgSaison = (RadioGroup) findViewById(R.id.rdgSaison);
        chSoleil = (CheckBox) findViewById(R.id.chSoleil);
        chNuages = (CheckBox) findViewById(R.id.chNuages);
        chPluie = (CheckBox) findViewById(R.id.chPluie);
        btnAfficher = (Button) findViewById(R.id.btnAfficher);
        ajouterEcouteurs();
        actualiserPluie();
    }
    private void ajouterEcouteurs() {
        btnAfficher.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {
                afficher();
            }
        });
        chNuages.setOnCheckedChangeListener(new OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(CompoundButton buttonView,
                boolean isChecked) {
                actualiserPluie();
            }
        });
    }
}
```

```

protected void afficher() {
    String saison = "Saison : ";
    String ciel = "Ciel : ";
    switch (rdgSaison.getCheckedRadioButtonId()) {
        case R.id.rdAutomne:
            saison += " Automne";
            break;
        case R.id.rdHiver:
            saison += " Hiver";
            break;
        case R.id.rdPrintemps:
            saison += " Printemps";
            break;
        case R.id.rdTete:
            saison += " Eté";
            break;
    }
    if (chSoleil.isChecked())
        ciel += "Soleil";
    if (chNuages.isChecked())
        if (ciel.equals("Ciel : "))
            ciel += "Nuages";
        else
            ciel += " + Nuages";
    if (chPluie.isChecked())
        ciel += " + Pluie";
    if (verifier()) {

        Toast t = Toast.makeText(getApplicationContext(), saison + "\n"
                + ciel, Toast.LENGTH_LONG);
        t.show();
    }
}
private boolean verifier() {
    if (!chSoleil.isChecked() && !chNuages.isChecked()) {
        Toast t = Toast.makeText(getApplicationContext(),
                "Cochez Soleil ou Nuages SVP!", Toast.LENGTH_LONG);
        t.show();
        return false;
    }
    return true;
}
protected void actualiserPluie() {
    if (chNuages.isChecked()) {
        chPluie.setEnabled(true);
    } else {
        chPluie.setChecked(false);
        chPluie.setEnabled(false);
    }
}
}

```

Couleurs

```
MainActivity.java
package com.couleurs;
//imports
public class MainActivity extends Activity {
    private SeekBar seekAlpha;
    private SeekBar seekRouge;
    private SeekBar seekVert;
    private SeekBar seekBleu;
    private TextView tvARGB;
    private TextView tvApercu;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        init();
    }
    private void init() {
        seekAlpha = (SeekBar) findViewById(R.id.seekAlpha);
        seekRouge = (SeekBar) findViewById(R.id.seekRouge);
        seekVert = (SeekBar) findViewById(R.id.seekVert);
        seekBleu = (SeekBar) findViewById(R.id.seekBleu);
        tvARGB = (TextView) findViewById(R.id.tvARGB);
        tvApercu = (TextView) findViewById(R.id.tvApercu);

        ajouterEcouteurs();
        actualiser();
    }
    private void ajouterEcouteurs() {
        OnSeekBarChangeListener l = new OnSeekBarChangeListener() {

            @Override
            public void onStopTrackingTouch(SeekBar seekBar) {
            }

            @Override
            public void onStartTrackingTouch(SeekBar seekBar) {
            }

            @Override
            public void onProgressChanged(SeekBar seekBar, int progress,
                                         boolean fromUser) {
                actualiser();
            }
        };
        seekAlpha.setOnSeekBarChangeListener(l);
        seekRouge.setOnSeekBarChangeListener(l);
        seekVert.setOnSeekBarChangeListener(l);
        seekBleu.setOnSeekBarChangeListener(l);
    }
}
```

```
protected void actualiser() {  
    int a = seekAlpha.getProgress();  
    int r = seekRouge.getProgress();  
    int v = seekVert.getProgress();  
    int b = seekBleu.getProgress();  
    tvARGB.setText("ARGB(" + a + "," + r + "," + v + "," + b + ")");  
    tvApercu.setBackgroundColor(Color.argb(a, r, v, b));  
  
    if (a > 0 && r > 0 && r == v && b == 0)  
        tvApercu.setText("Aperçu : Jaune");  
    else if (a > 0 && r > 0 && r == b && v == 0)  
        tvApercu.setText("Aperçu : Magenta");  
    else if (a > 0 && r == 0 && v > 0 && v == b)  
        tvApercu.setText("Aperçu : Cyan");  
    else  
        tvApercu.setText("Aperçu");  
}  
}
```