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.rdEte:
            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");
	}
}
```