AU 2022/2023 S1

ISET SFAX

DEPARTEMENT TECHNOLOGIE

DE L'INFORMATIQUE



TD08 Correction

Matière: Atelier Developpement MOBILE AVANCE Classes: SEM31

Exercice 1

```
private void calculer() {
    Bitmap bitmap = ((BitmapDrawable) imgCodes.getDrawable()).getBitmap();
    BarcodeDetector.Builder b = new Builder(this);
    b.setBarcodeFormats(Barcode.ALL_FORMATS);
    BarcodeDetector detector = b.build();
    Frame frame = new Frame.Builder().setBitmap(bitmap).build();
    SparseArray<Barcode> codes = detector.detect(frame);
    float somme = 0;
    for (int i = 0; i < codes.size(); i++) {
     Barcode code = codes.valueAt(i);
     somme += getPrix(code.rawValue);
    }
    Toast t = Toast.makeText(this, "La somme des prix est: " + somme, Toast.LENGTH_LONG);
    t.show();
 }
```

Exercice2

```
private void analyser() {
   Bitmap bitmap = ((BitmapDrawable) imgVisages.getDrawable()).getBitmap();
   FaceDetector.Builder b = new FaceDetector.Builder(this);
   b.setTrackingEnabled(true);
   b.setLandmarkType(FaceDetector.ALL_LANDMARKS);
   b.setClassificationType(FaceDetector.ALL_CLASSIFICATIONS);
   FaceDetector detector = b.build();
   Frame frame = new Frame.Builder().setBitmap(bitmap).build();
   SparseArray<Face> faces = detector.detect(frame);
   int nbV = faces.size();
   int nbVS = 0;
   double dOM = 0;
   for (int i = 0; i < faces.size(); ++i) {
    Face face = faces.valueAt(i);
    if (face.getIsSmilingProbability() > 0.75f)
        nbVS++;
    double xG = 0, yG = 0, xD = 0, yD = 0;
    for (Landmark I : face.getLandmarks()) {
        if (l.getType() == Landmark.LEFT_EYE) {
         xG = I.getPosition().x;
         yG = I.getPosition().y;
        if (l.getType() == Landmark.RIGHT_EYE) {
         xD = I.getPosition().x;
         yD = I.getPosition().y;
    }
    double distance = Math.sqrt(Math.pow(xG - xD, 2) + Math.pow(yG - yD, 2));
    if (distance > dOM)
      dOM = distance;
   tvNbV.setText(nbV + "");
   tvNbVS.setText(nbVS + "");
   tvDOM.setText(String.format("%.2f", dOM) + "");
}
```

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