### **Labo 01A – Calcul du temps de trajet**

**Variables:**

DELTA\_X = 3km

DELTA\_Y = 10km

DISTANCE\_ROAD = 6km

distanceTerrain = ?km

SPEED\_ROAD = 5km/h

SPEED\_TERRAIN = 2km/h

**Output:**

timeTotal

**Methods:**

timeTotal = DISTANCE\_ROAD / SPEED\_ROAD + distanceTerrain / SPEED\_TERRAIN

distanceTerrain = ( (DELTA\_Y – DISTANCE\_ROAD)^2 + (DELTA\_X) ^2 ) ^1/2

**Steps:**

Create constant integer variable DELTA\_X = 3km

Create constant integer variable DELTA\_Y = 10km

Create constant integer variable DISTANCE\_ROAD = 6km

Create constant integer variable SPEED\_ROAD = 5km/h

Create constant integer variable SPEED\_TERRAIN = 2km/h

Create integer variable distanceTerrain = 0

Create integer variable timeTotal = 0

distanceTerrain = ( (DELTA\_Y – DISTANCE\_ROAD)^2 + (DELTA\_X) ^2 ) ^1/2

timeTotal = DISTANCE\_ROAD / SPEED\_ROAD + distanceTerrain / SPEED\_TERRAIN

Show timeTotal