

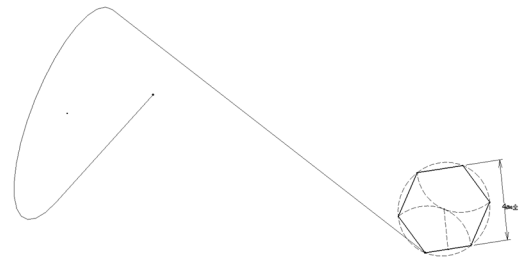
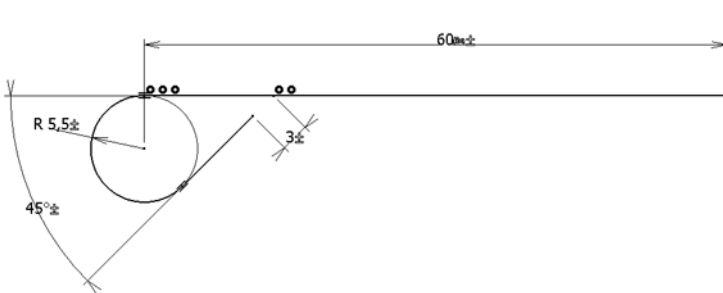
TP4

Holder: Allen key

Objectives: Create a component library.

procedure :


Create a new part using the sketches and the definition drawing.



Change product reference: Cle_allen

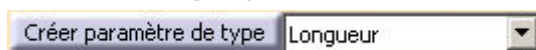
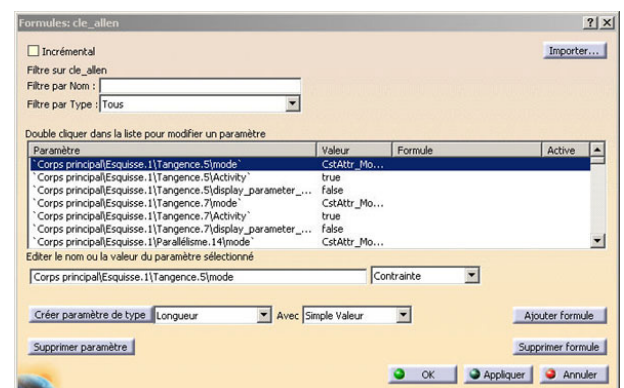

save the part in your personal drive P:, in a directory named tools.

Creation of parameters

click on formula  Or on **Tools, Formulas**

the following menu appears:

choose a length parameter in the window:

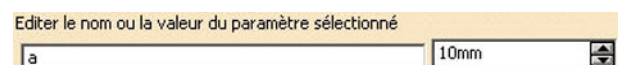
click on 

Rename "a" the "length_1" parameter in the area:

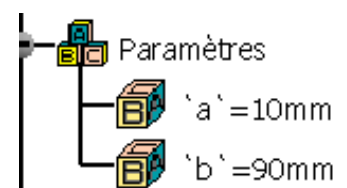
give it the value of 10 mm

click on 

create a second length parameter named "b" and value 90 mm

click on  to leave

The tree is enriched with parameters



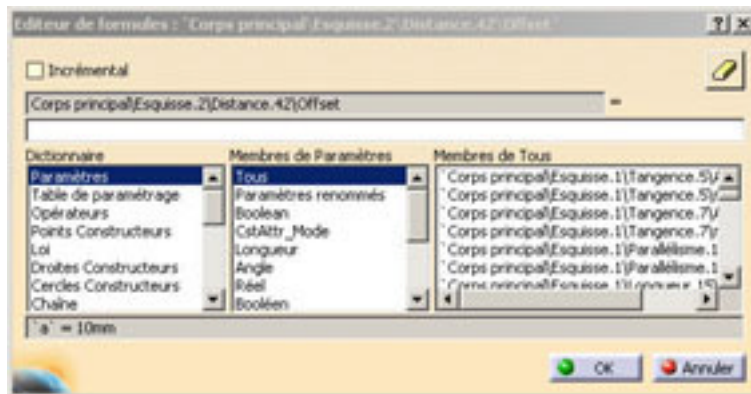
Parameter assignment:

open sketch 2 (profile)

right click on the rating of 10 choose

Distance Object, Edit Formula

the following menu appears:



put the cursor in the input field then click in the tree on the parameter "**has**"

click on 

close the sketch by clicking 

open sketch 1 (profile)

right click on the rating of 90 choose

Distance Object, Edit Formula

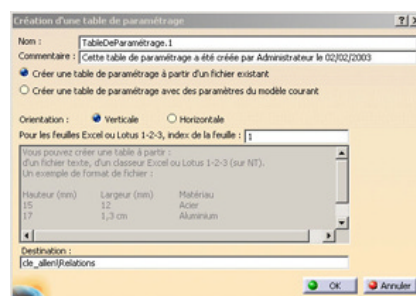
put the cursor in the input field then click in the tree on the parameter "**b**"

click on 

close the sketch by clicking 

Creation of the parameter table

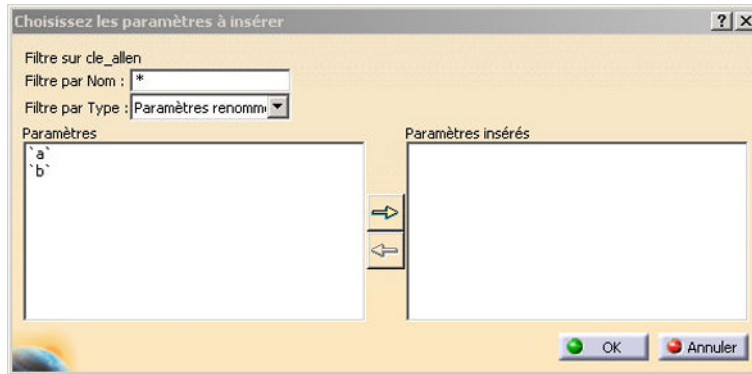
Click on  the following menu:



check the box  **Créer une table de paramétrage avec des paramètres du modèle courant**

click on 

the following menu appears:



Put a star in the field **filter by name**.

Choose **parameters renamed** in the fields **filter by type**

select parameter **"has"** then click on

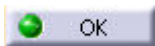


select parameter **"b"** then click on

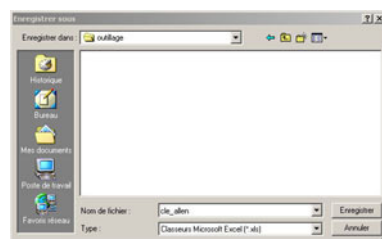


you must have **"a"**, **"b"** in the column **inserted parameters**

click on



the following menu appears:



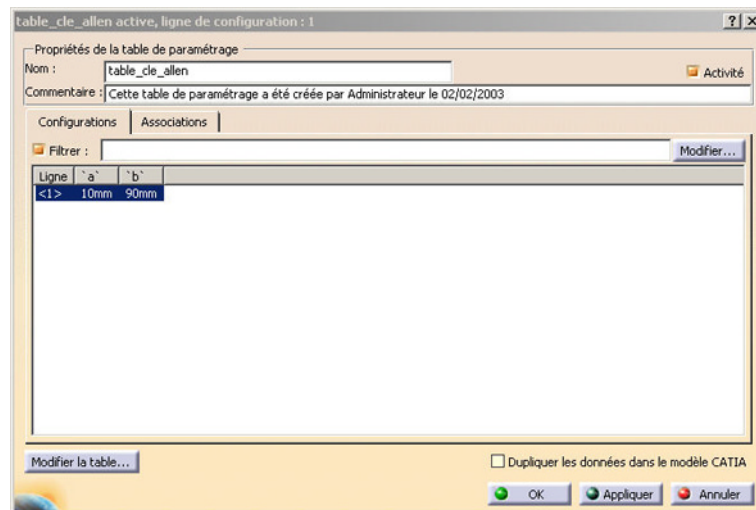
choose the path **p:\.....\tools**

name the file: **Allen wrench**

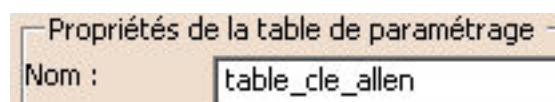
click on



the following window appears:

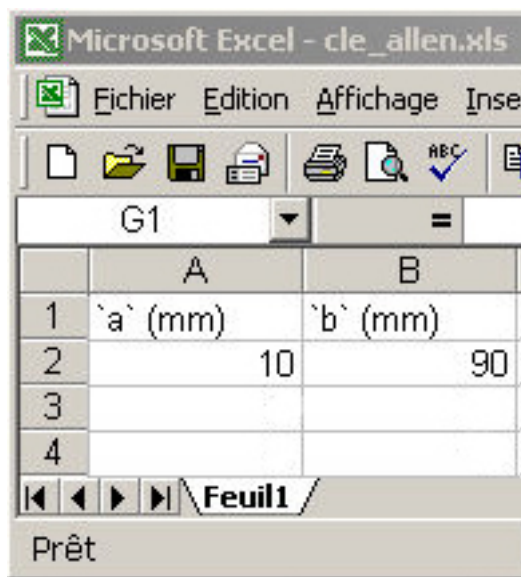


give a name to the parameter table:

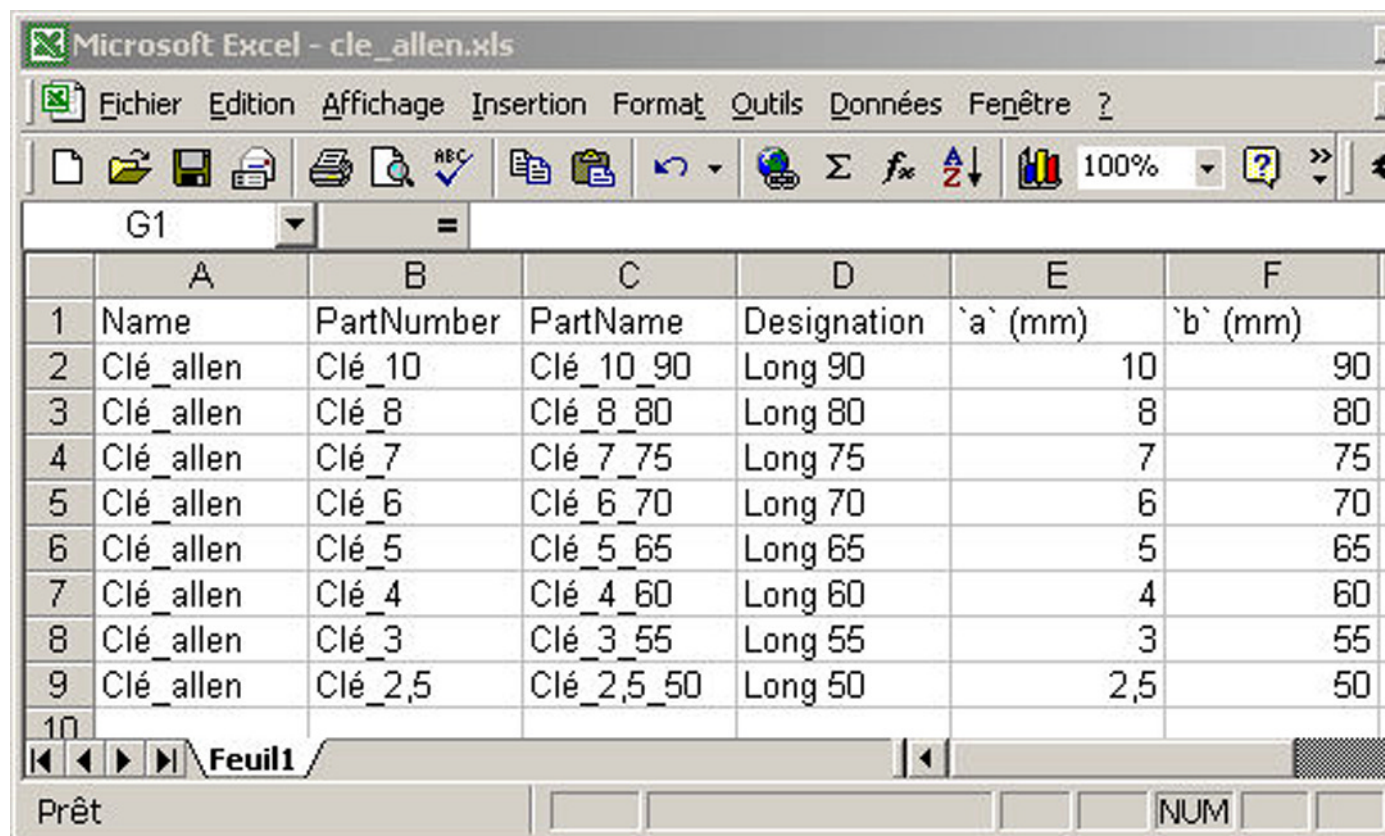


click on 

the following window appears:

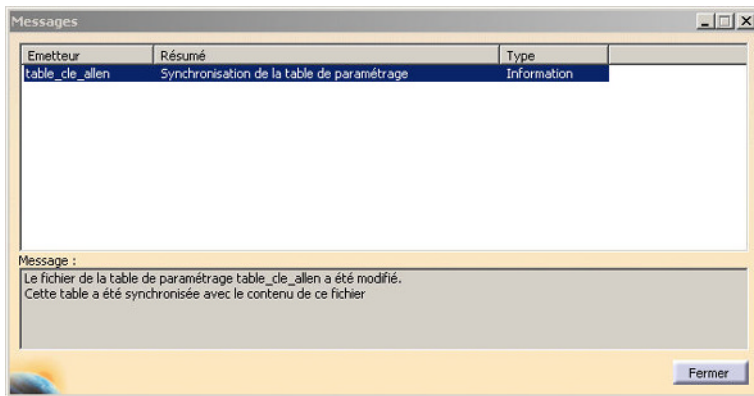


Insert 4 columns in the table and complete the table as below



click on **File, Exit** click on





click on 
setting is complete

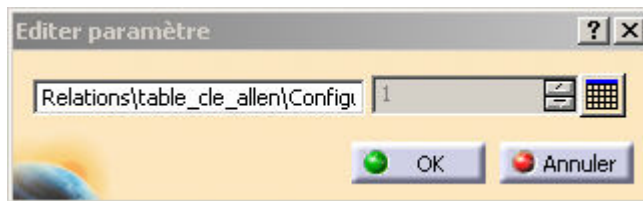
Configuration change


develop the parameter tree



double click  'Configuration' =1

the window opens:



click on 

choose configuration 4 in the following table:

Ligne	'a'	'b'
<1>	10mm	90mm
2	8mm	80mm
3	7mm	75mm
4	6mm	70mm
5	5mm	65mm
6	4mm	60mm
7	3mm	55mm
8	2,5mm	50mm

double click on



save your work and close the window

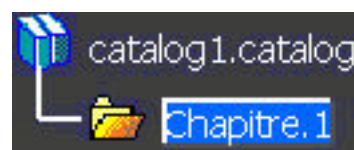
creation of a library

Open the Catalog Editor workbench by clicking on Start, Infrastructure, Catalog Editor



Right click on **chapter 1**

then click on **subject chapter.1** and **definition**



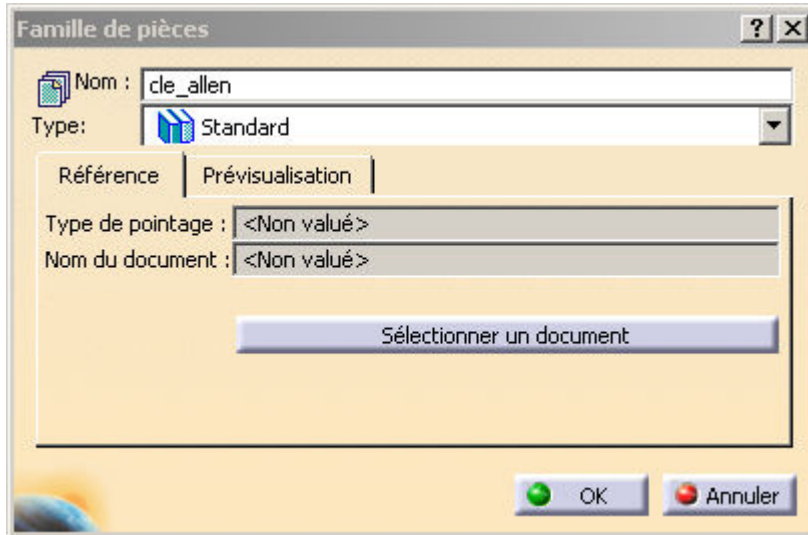
name the new chapter "tools"

click on 

click on add a family of parts



the window opens:



name the family of parts "**Allen wrench**"

click on  choose the file **key_allen.CATPart** in your P:\ directory

click on 

Save the catalog (Save as) in your P:\ directory with the "tooling". close the catalog window.

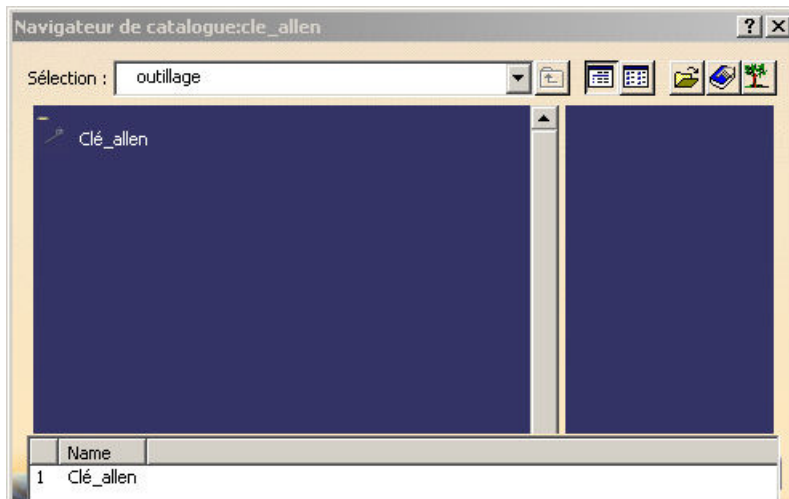
Use of the catalog


Open Assembly Workbench

click on component catalog



the window opens




click on Show another catalog 

choose in your P:\ directory, the catalog "**tools.catalog**"

Double-click in the blue window on **Allen wrench** the list of keys appears.

drag the allen key of 10 into the tree (on the word product.1)

redo the operation with the other keys

click on  the setting is complete.