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KISSsys function: Calculation module selection from the list

1 Introduction

1.1 Functionality

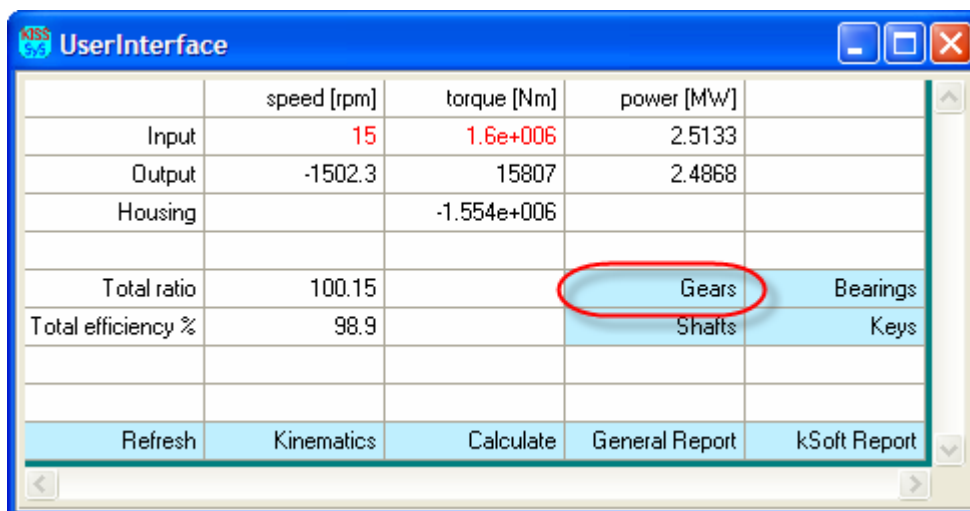


Figure 1.1-1 Access to the calculation module form the "UserInterface"

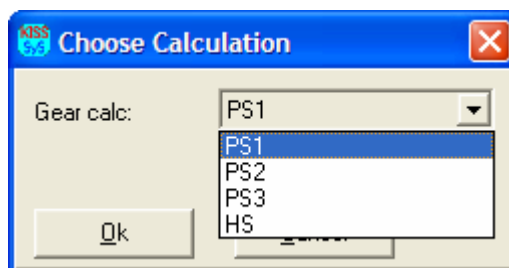


Figure 1.1-2 List of all calculations to select the desired one

1.2 Adding the functionality

Use right mouse click to add new function in the "UserInterface" to make access to the modules. You can write function code directly to the opened window or define it under "Properties" as a new variable and then only call this function from the "UI".

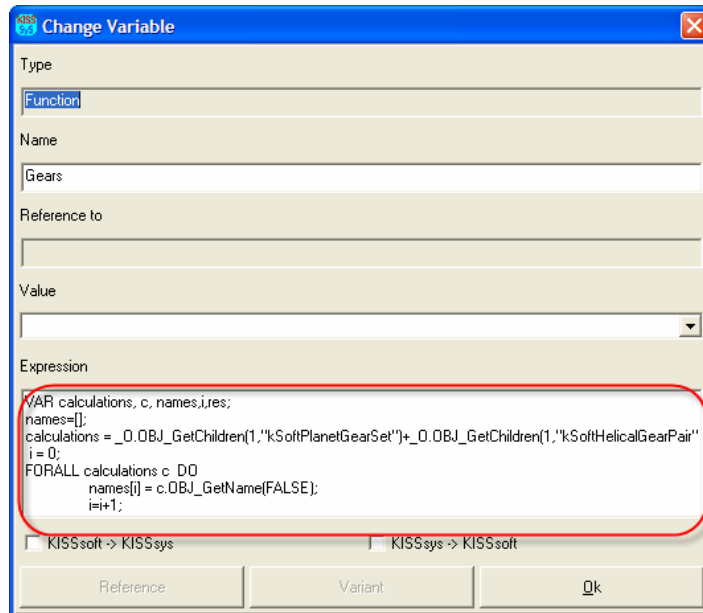


Figure 1.2-1 Function code can be defined directly to the "Expression" field

Note! Be careful using "Expression" field for function definition, because if it is not compliant, it will disappear and you need to write it again.

2 Function

2.1 Course code

<pre>//Gear Calculations: VAR calculations, c, names,i,res; names=[]; calculations = _O.OBJ_GetChildren(1,"kSoftPlanetGearSet")+ _O.OBJ_GetChildren(1,"kSoftHelicalGearPair"); i = 0; FORALL calculations c DO names[i] = c.OBJ_GetName(FALSE); i=i+1; NEXT res = CADH_VarDialog(["Choose Calculation",250,100,0.4], [C:VDLG_StrCom,"Gear calc:",names]); IF res[0] THEN FORALL calculations c DO IF c.OBJ_GetName(FALSE) = res[1] THEN c.kSoftInterface(); ENDIF NEXT ENDIF ENDIF</pre>	<p>Define local variables Initialize the list of the names Get a list of all gear calculation modules</p> <p>Set i to 0 Go through the whole list of calculation modules Get the name of each calculation module OBJ_GetName(FALSE); get only the name of the module OBJ_GetName(TRUE); get the name with the whole path from the root</p> <p>Show the dialog</p> <p>IF "OK" pressed do the following else quit Look for the list of calculations until the same name is found as selected from the list Open the selected module</p>
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2.2 Where to find the course code?

You are able to copy paste code from the referenced txt file.

In this file you may find out ready made codes for the following calculation module selections

- Gears (helical and planetary modules)
- Bearings
- Shafts
- Keys