User's Guide:

Remind: Before start this software, please install the python package: tkinter, os, json, datetime

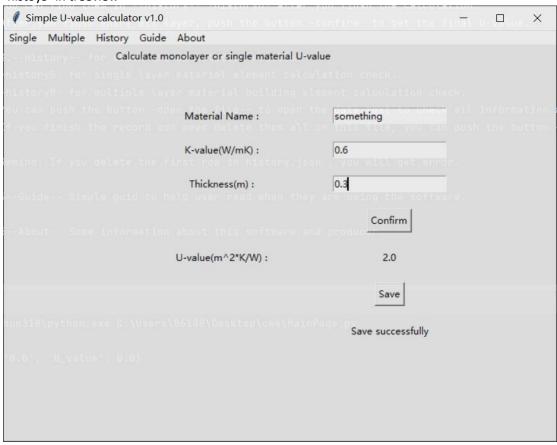
Please run the MainPage.py to start.

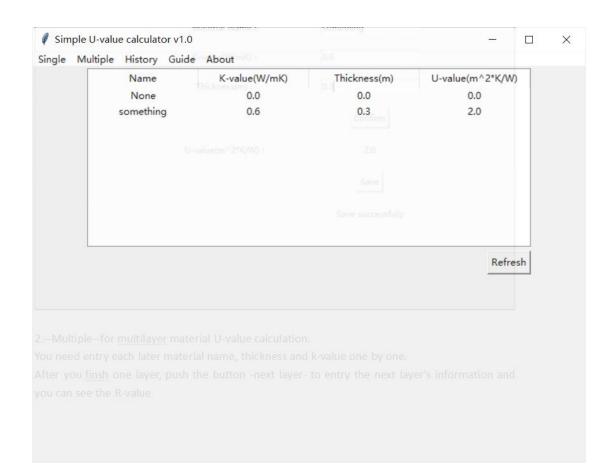
Please select function in menubar.

1.--Single--for monolayer material U-value calculation.

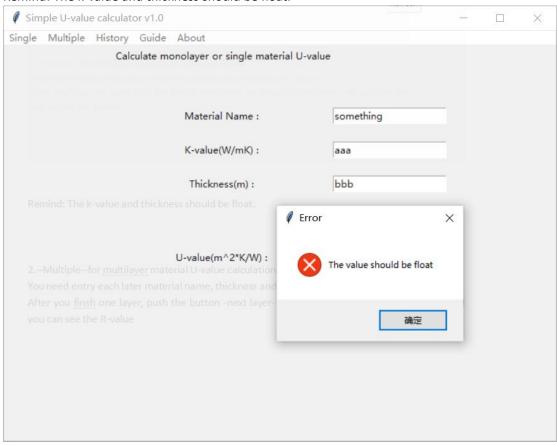
You need entry the material name, thickness and k-value and push the button -confirm- to get the U-value

You can push the button -save- to save the information and you can check them in --History--histoyS- in treeview





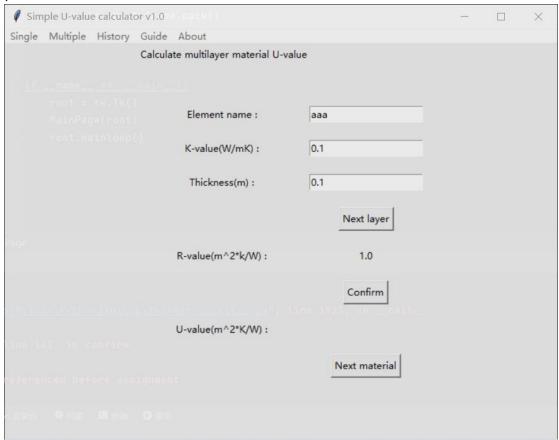
Remind: The k-value and thickness should be float.



2.--Multiple--for multilayer material U-value calculation.

You need entry each later material name, thickness and k-value one by one.

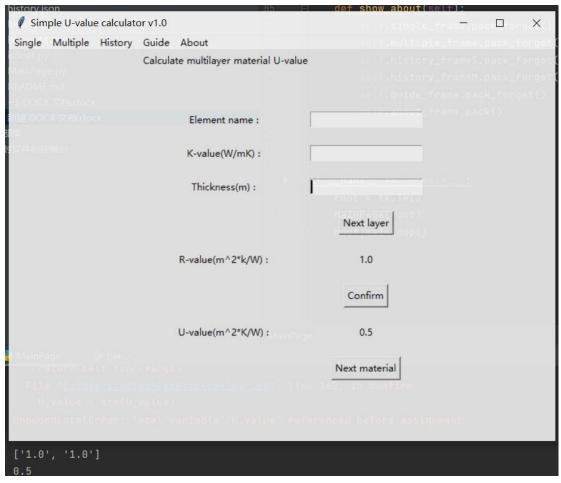
After you finsh one layer, push the button -next layer- to entry the next layer's information and you can see the R-value



∅ Sim	nple U-valu	e calculat	or v1.0			-	×
Single	Multiple	History	Guide	About			
			Calcula	te multilayer material U-v	alue		
if							
				Element name :	bbb		
Ĥ				K-value(W/mK) :	0.2		
				Thickness(m):	0.2		
					Next layer		
Page				R-value(m^2*k/W):	1.0		
Pytho					Confirm		
s.': '8				U-value(m^2*K/W):			
					Next material		
a Élle							

The material name, thickness, K-value and R-value will be saved in data.text to let user check. You can find them in --History-- -historyM- after you finsh the calculation.

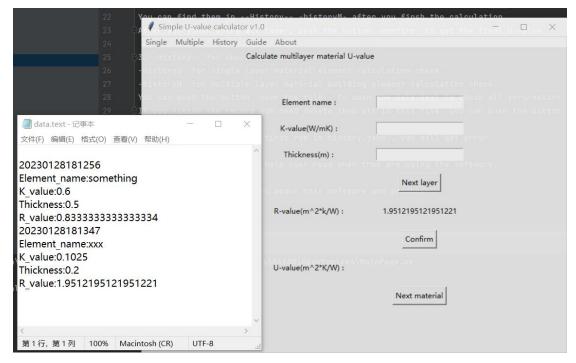
After you finish entry all layer, push the button -confirm- to get the final U-value.



You can start calculate next material after push the button -Next material- and start entry the information.

- 3.--History-- for check the calculation results.
- -historyS- for single layer material element calculation check.
- -historyM- for multiple layer material building element calculation check.

You can push the button -open the file-- to open the data.text to check all information and the time when you entry.



If you finish the record and need delete them all in this file, you can push the button -delete- .

Remind: If you delete the first row in history.json , you will get error.

4--Guide-- Simple guid to help user read when they are using the software.

5--About-- Some information about this software and producer.