Assignment 2: Question 6	
October 30, 2023 11:16 AM	
Turzet Resistration Ellor Simulation	+
Module to analyte the cobustness of Tweet Registration against maker segmentation eccors	
Assume marker Segmentation in the X-ray images the only some of twoch registration Error	
a Analysis entirely in LT From	
Stups:	_
• max tazet /egistulia Ellar (maxTRE) is 1 mm	1
· marker Segmentation Ever is a vector of random direction and Fixed Magnitude (Emax)	
Lo Steet at Enax = 0  Lo incerte by 0.1mm	
Lo stop at Clinical limit maxTRE	7
· Generale N ramlan grand truth taget points inside toget envelop in Cle	
Ly con whe generale rudon vector	+
	#
o Project MILA MZLA M3Ch onto X-lay La con usa X-ray projetva	+
· Start Simulation	
to for cells N grand trath faint in evelope, register toward point	+
from CT from to UI	
for loop of grant truth park in comme	
2 Use grant +rath (i) us taret	
ws touser 10,15 trantian takes toward in Frame -> touset in now Frame	+
TB = target Resistintia (TA, MIA, MIA, MIA, MIB, MIB, MIB, MIB, MIB)	_
Non-sould Spoiled	$\pm$
TRE = my TA - TB   Hotel	
if TRE > mux TRE exit.	
	+
otherwise inune Emx	#
vivania inima com	_