Language: MATLAB source code: problem\_2d.m

After running the code, the values of different defined variables in the "workspace" give us -

. After finding the element to element ratio of burner (b-k in the code) to Vmax (v-max in the code) and after normalizing the "element\_ratio" vector we nee that the "deviation" vector demonstrate that the difference of each element of normalized "clament\_ ratio" vector from 1 is in the order of 10-4 at max while some elements are in the order 10-14 and nome being zero.

Banically. thin allown us to write, brown = (1.9819) x Umax to element ratio for vectors b-k i. b<sub>kmax</sub> or Vinax

to V-max

· Similarly, after finding the element to element difference between Mokman and 2 max burner we check the vector "error" and find out that all the differences are in the order that all the differences are in the order of 10-6 or smaller so, this allows us to

50rg.

M bkmax = 2 max bkmax