Looping floats is perfectly legal - try it if you don't believe it.

- change your 'while e_t lt 2' to 'if e_t lt 2'- then it doesn't loop
(FYI, use BREAK to get out of a loop manually)

- open your file right at the beginning (after if e_t), and close it
right at the end. Also, unless you want the file to be overwritten
each time, use openu (open for updating) instead of openw (open new
for writing). Don't test for anything before opening the file, just
test before writing a new row to it

- you are writing 4 values to file, so format needs to be
format='(4f9.4)' (in human terms, that means 4 Floating point numbers
of 9 characters with 4 characters after the decimal point)

-make sure the line where you open your file doesn't spill onto two
lines like it does on this post.

this will hopefully get you started...