Notes on how to use the code inference_primer.py :

Input example :

Provide input in a form of an excel file (.xlsx) using the following 4 headers, in a set of excel sheets

|	A	B	C	D
1	PRIMNAME	PRIMID	READS	COPIES1
2	Culex_pipiens	1	18422	30
3	Culex_pipiens	2	117267	30
4	Culex_pipiens	3	72937	30
5	Aedes_detritu	1	9011	3
6	Aedes_detritu	2	60343	3
7	Aedes_detritu	3	31881	3
8	Aedes_caspiu	1	35276	60
9	Aedes_caspiu	2	177433	60
10	Aedes_caspiu	3	153307	60
11	Culiseta_annu	1	488	1
12	Culiseta_annu	2	3243	1
13	Culiseta_annu	3	2124	1
14	Aedes_albopi	1	626	1
15	Aedes_albopi	2	67	1
16	Aedes_albopi	3	2013	1
17	Culex_theileri	1	1437	1
18	Culex_theileri	2	367	1
19	Culex_theileri	3	4067	1
20	Aedes_vexan	1	1532	3
21	Aedes_vexan	2	5636	3
22	Aedes_vexan	3	5729	3
23	Anopheles_m	1	869	1
24	Anopheles_m	2	6466	1
25	Anopheles_m	3	13866	1

Use a different header (anything different that COPIES) to set that a data set is only used for predistortion and the data are not to be used during retraction.

Run program:

Step 1 select input :
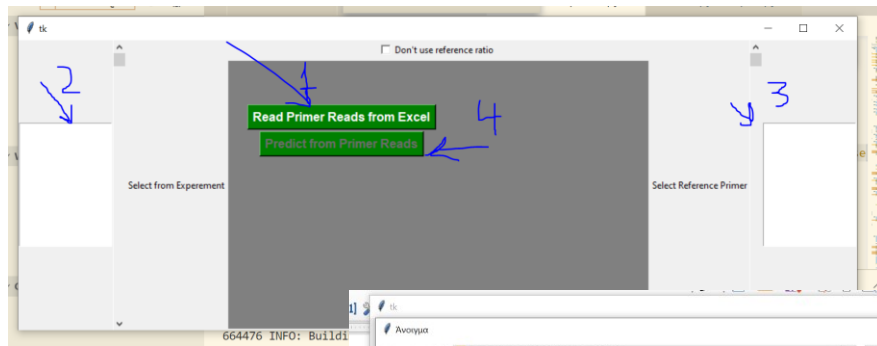
Select experiment or experiments and on Primer common to all experiments to act as reference Culex_pipiens_Primer1 as the reference Primer. Note that One can select multiple experiments but only one reference primer.
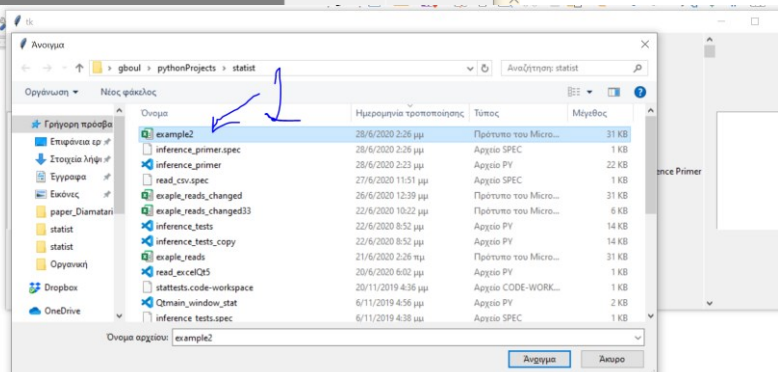
Depending on the heads use in the input excel file the one gets a comparison between the measured copies (used:) and the predicted copies (pred:)or only the predicted copies in the case that the header has been set not to match COPIES in some of the experiments.