

ASSIGNMENT

ADA Practical

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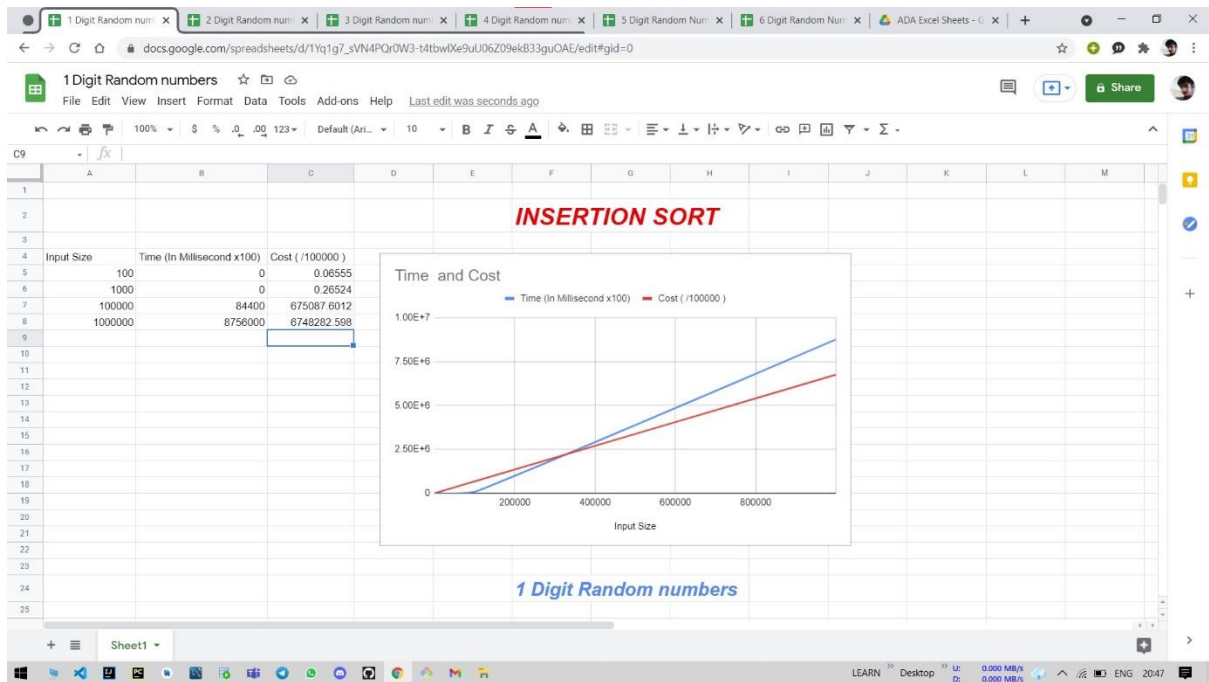
1. Graph for 1 Digit Random numbers

INSERTION SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	6555
1000	0	26524
100000	844	6750876012
1000000	87560	674828259774

MERGE SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	1867
1000	3	31791
100000	42	4874861
1000000	300	64163911



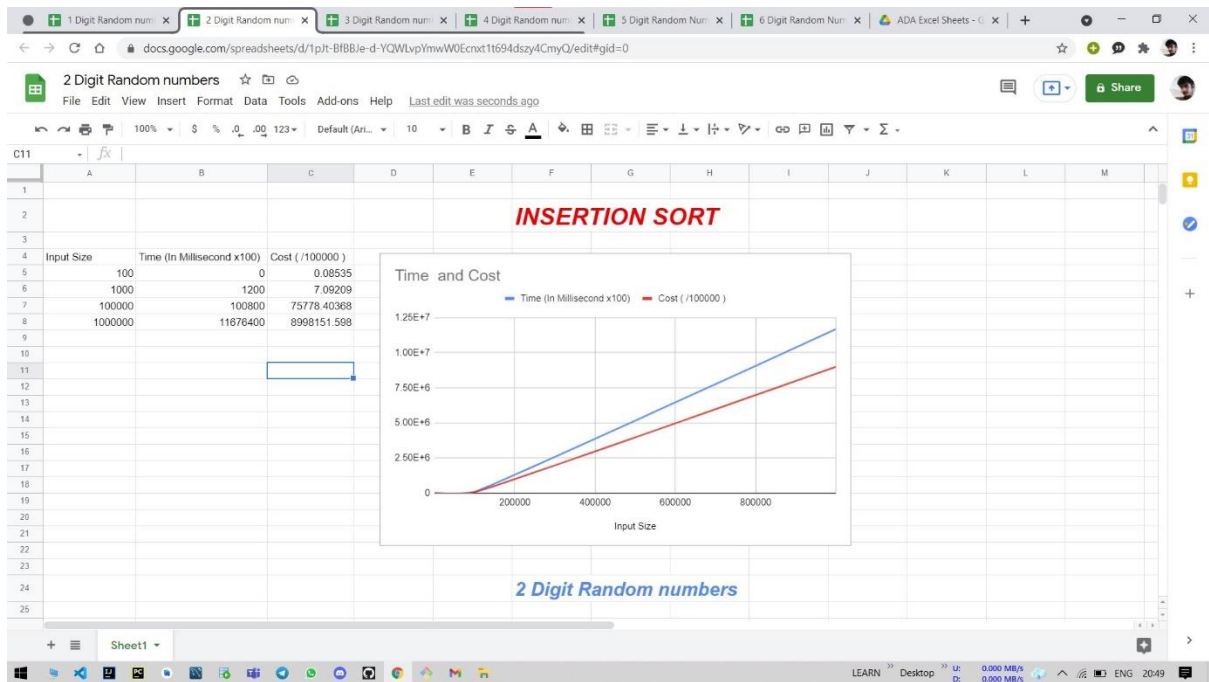
2. Graph for 2 Digit Random numbers

INSERTION SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	8535
1000	12	709209
100000	1008	7577840368
1000000	116764	8998115159847

MERGE SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	1867
1000	3	30246
100000	38	4928447
1000000	267	58520605



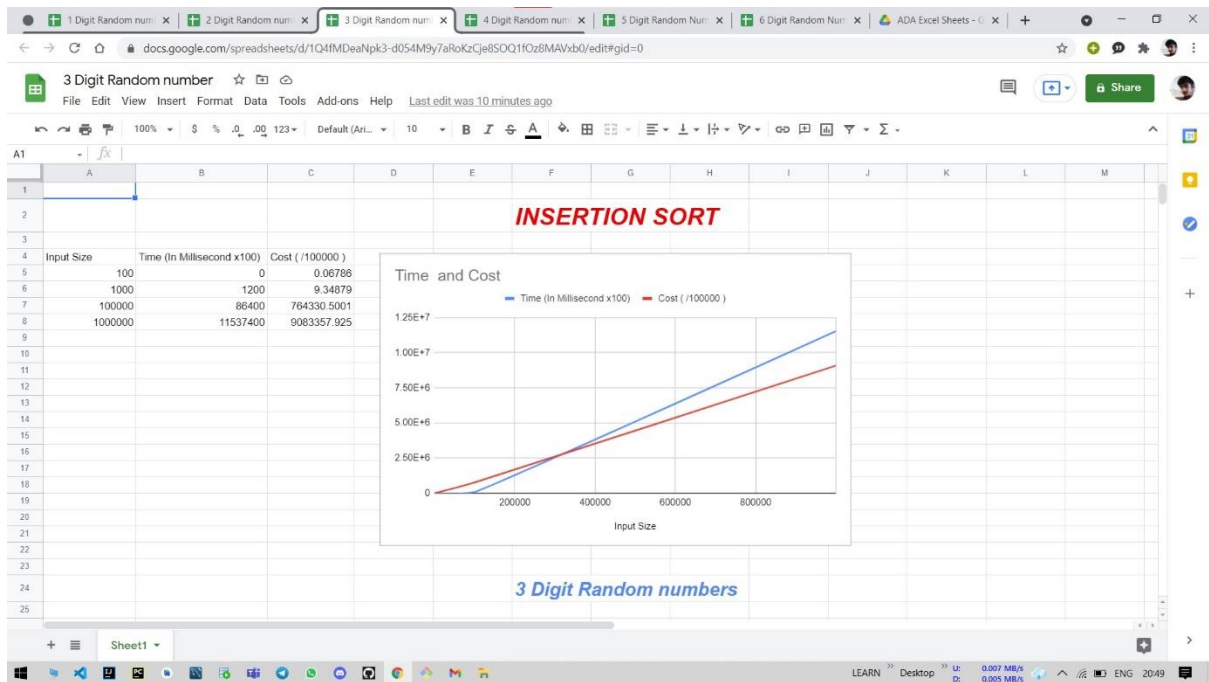
3. Graph for 3 Digit Random numbers

INSERTION SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	6768
1000	12	709209
100000	864	7643305001
1000000	115374	908335792536

MERGE SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	1892
1000	3	32046
100000	38	4932191
1000000	267	64967911



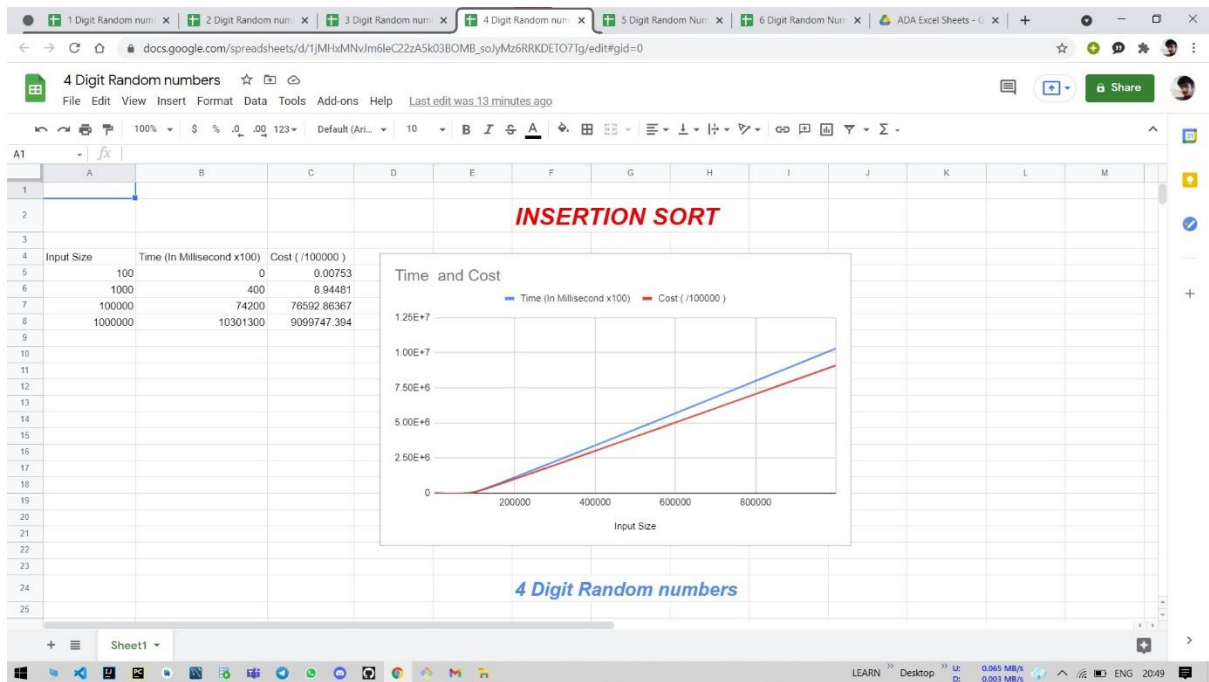
4. Graph for 4 Digit Random numbers

INSERTION SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	7530
1000	4	894481
100000	742	7659286367
1000000	115374	909974739402

MERGE SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	1885
1000	2	32039
100000	47	4932430
1000000	340	64970803



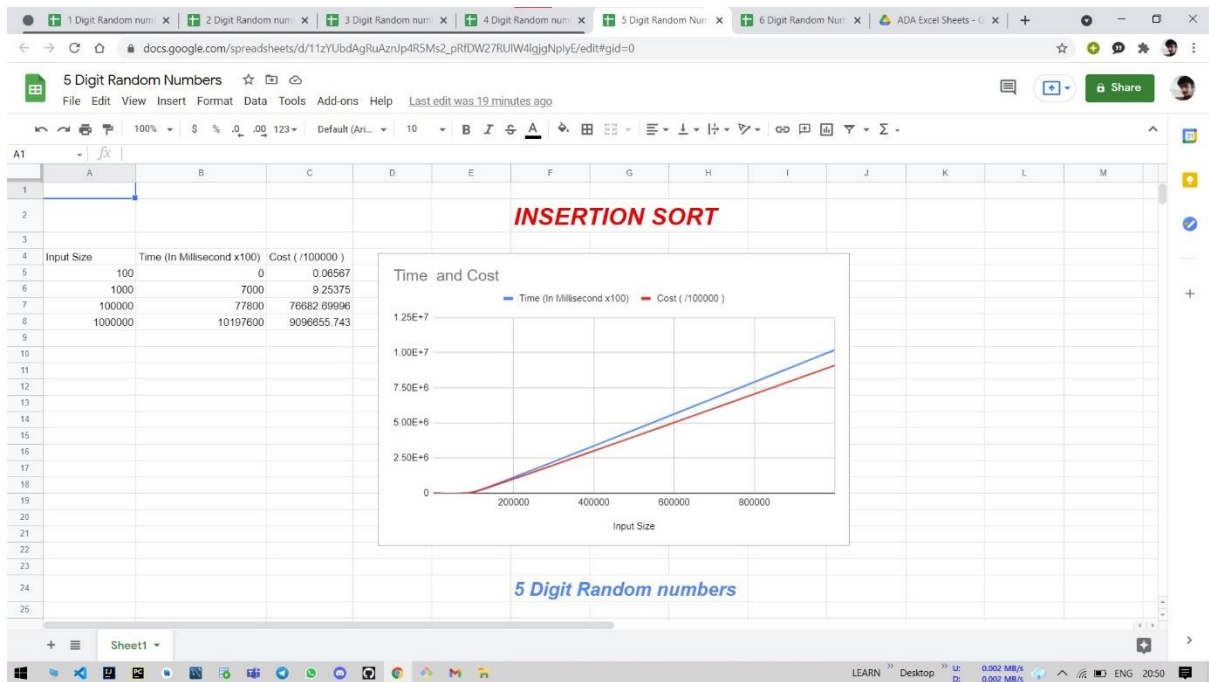
5. Graph for 5 Digit Random numbers

INSERTION SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	6567
1000	7	925395
100000	778	7668269996
1000000	101976	909665574220

MERGE SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	1896
1000	2	32024
100000	37	4932161
1000000	252	58576091



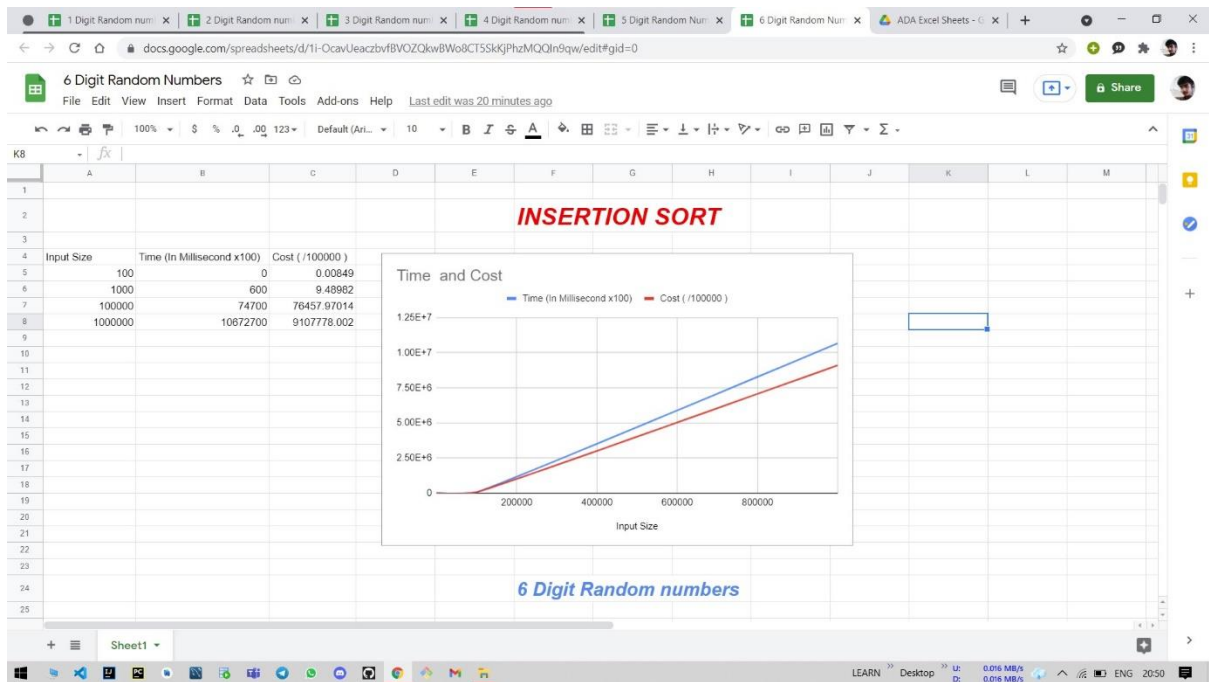
6. Graph for 6 Digit Random numbers

INSERTION SORT

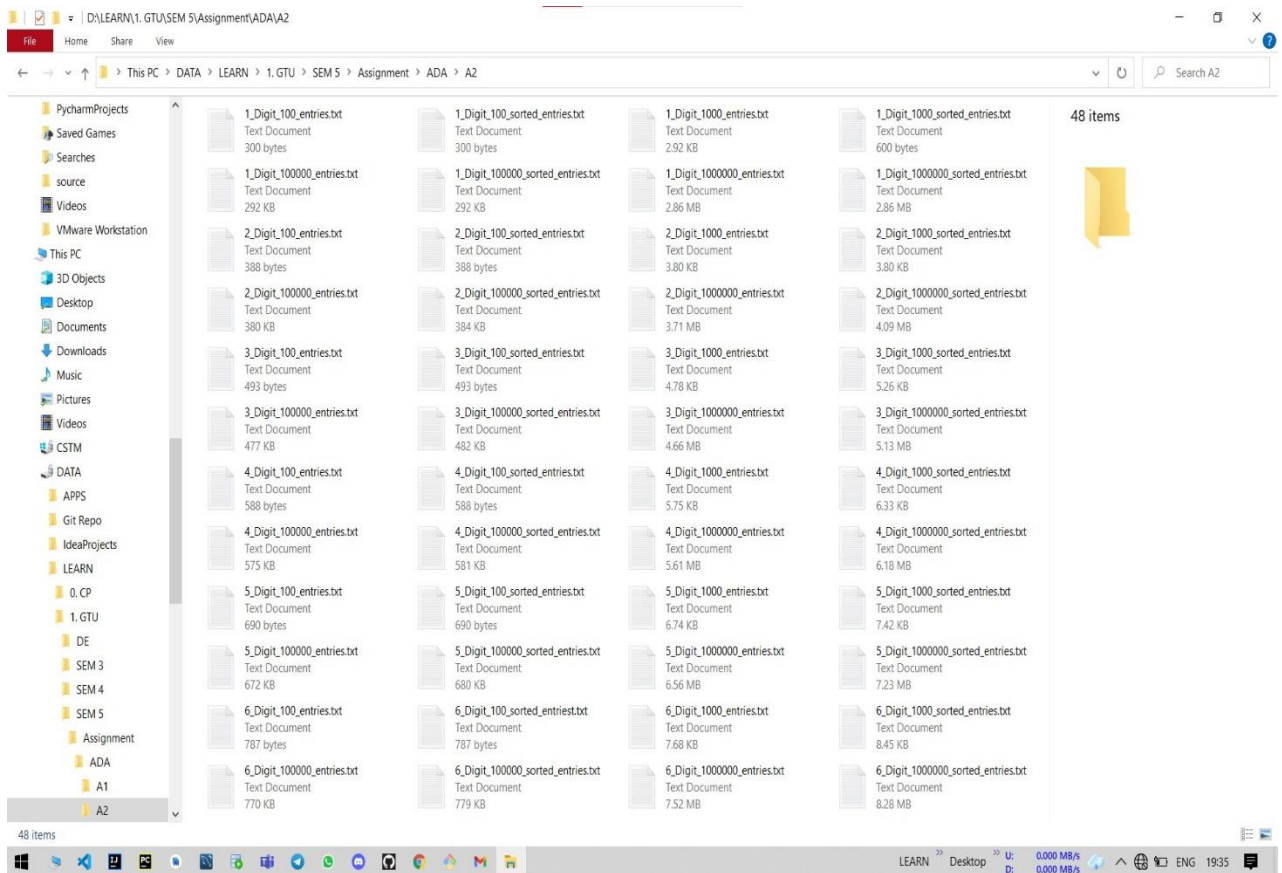
<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	0	8490
1000	6	948982
100000	747	7645797014
1000000	106727	910777800216

MERGE SORT

<u>Input Size</u>	<u>Time (In ms)</u>	<u>Cost</u>
100	1	1895
1000	3	32006
100000	64	4874209
1000000	252	64900033



7. Screen Shot of Files sorted files created



8. Screen Shot of Excel Sheets

The screenshot shows a Google Drive interface with a folder named "ADA Excel Sheets". Inside this folder, there are six Excel files. The files are listed in a table with the following columns: Name, Owner, Last modified, and File size.

Name	Owner	Last modified	File size
1 Digit Random numbers	me	8:46 PM me	—
2 Digit Random numbers	me	8:49 PM me	—
3 Digit Random number	me	8:40 PM me	—
4 Digit Random numbers	me	8:37 PM me	—
5 Digit Random Numbers	me	8:32 PM me	—
6 Digit Random Numbers	me	8:30 PM me	—

The interface also shows a sidebar with navigation options like "My Drive", "Shared drives", "Computers", "Shared with me", "Recent", "Starred", and "Trash". At the bottom, there is a storage usage indicator showing "4.96 GB of 15 GB used" and a "Buy storage" button.