Assignment-4

SECTION-2

NAME: NAGA MANOHAR ROLL.NO: 2021101128

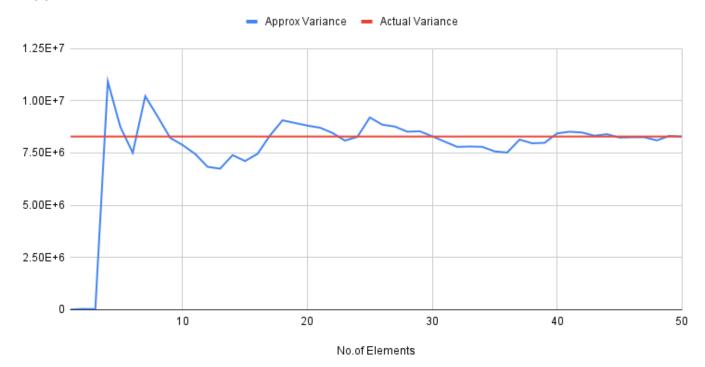
Question_4(b)_Approximate Variance Vs Actual Variance

No.of	Approx	Actual
Elements	Variance	Variance
1	0	8283502.778
2	28900	8283502.778
3	20834.66667	8283502.778
4	10928433.69	8283502.778
5	8751046.16	8283502.778
6	7508789.139	8283502.778
7	10218947.84	8283502.778
8	9236780.25	8283502.778
9	8224028.889	8283502.778
10	7877174.16	8283502.778
11	7451676.926	8283502.778
12	6832259.972	8283502.778
13	6747593.822	8283502.778
14	7394673.265	8283502.778
15	7111178.649	8283502.778
16	7459568.871	8283502.778
17	8341140.678	8283502.778

18 9062722.645 8283502.778 19 8934642.787 8283502.778 20 8808283.06 8283502.778 21 8710164.331 8283502.778 22 8457960.085 8283502.778 23 8091727.607 8283502.778 24 8272947.66 8283502.778 25 9199331.68 8283502.778 26 8850689.694 8283502.778
20 8808283.06 8283502.778 21 8710164.331 8283502.778 22 8457960.085 8283502.778 23 8091727.607 8283502.778 24 8272947.66 8283502.778 25 9199331.68 8283502.778 26 8850689.694 8283502.778
21 8710164.331 8283502.778 22 8457960.085 8283502.778 23 8091727.607 8283502.778 24 8272947.66 8283502.778 25 9199331.68 8283502.778 26 8850689.694 8283502.778
22 8457960.085 8283502.778 23 8091727.607 8283502.778 24 8272947.66 8283502.778 25 9199331.68 8283502.778 26 8850689.694 8283502.778
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26 8850689.694 8283502.778
27 8764133.583 8283502.778
28 8518101.276 8283502.778
29 8536064.302 8283502.778
30 8297373.166 8283502.778
31 8040993.003 8283502.778
32 7789723.655 8283502.778
33 7808012.591 8283502.778
34 7792545.011 8283502.778
35 7575991.368 8283502.778
36 7518513.583 8283502.778
37 8140019.937 8283502.778
38 7961899.77 8283502.778
39 7984339.615 8283502.778
40 8435582.594 8283502.778
41 8516713.518 8283502.778
42 8477956.181 8283502.778
43 8323817.295 8283502.778
44 8399345.267 8283502.778
45 8234171.404 8283502.778
46 8252239.346 8283502.778
47 8250096.758 8283502.778

48	8101073.281	8283502.778
49	8317069.297	8283502.778
50	8283502.778	8283502.778

Approx Variance and Actual Variance



Thus from the Above Graph we can conclude that:
The value of **Approximate Variance** approaches the **Actual Variance** as we read more data and after reading the last element we get **Approximate Variance** = **Actual Variance**