NAME:	Eshan Bhuse
UID:	2021300013
SUBJECT	Design and Analysis of Algorithm
EXPERIM ENT NO:	1
DATE OF PERFORM ANCE	23/01/2023
DATE OF SUBMISSI ON	08/2/2023
AIM:	To implement various functions eg: linear, non-linear, quadratic and exponential.
PROBLEM	For this experiment way have to implement at least 10 functions from
STATEME NT 1:	For this experiment, you have to implement at least 10 functions from the following list.

ALGORIT HM:

Step 1: Start.

Step 2: Declare the variables which are required to perform operations on the functions.

Step 3: Start the loop which starts from 0th number to 100th number.

Step 4: i. Perform the operation:

 \mathbf{n}

ii. Print the result.

Step 5: i. Perform the operation:

1.5^n

ii. Print the result.

Step 6: i. Perform the operation:

 $n*(2^n)$

ii. Print the result.

Step 7: i. Perform the operation:

n^3

ii. Print the result.

Step 8: i. Perform the operation:

e^n

ii. Print the result.

Step 9: i. Perform the operation:

log2(n)

ii. Print the result.

Step 10: i. Perform the operation:

 $2^{\log 2(n)}$

ii. Print the result.

Step 11: i. Perform the operation:

n*log2(n)

ii. Print the result.

Step 12: i. Perform the operation:

log(n)

ii. Print the result.

Step 13: i. Perform the operation:

 $2^{\log(n)}$

ii. Print the result.

Step 14: End the loop Step 15: End.

PROGRA M:

```
#include<stdio.h>
11 void function1(int n)
12 - {
      printf("%d\t",n);
14 }
15 void function2(int n)
16 - {
        float result;
       result=pow(1.5,n);
      printf("%f\t",result);
20 }
21 void function3(int n)
22 - {
        float result;
        result=n*pow(2,n);
       printf("%f\t",result);
26 }
27 void function4(int n)
28 - {
        float result;
       result=pow(n,3);
       printf("%f\t",result);
32 }
33 void function5(int n)
34 - {
       float result;
        result=exp(n);
       printf("%f\t",result);
38 }
39 void function6(int n)
40 - {
        float result;
        result=log2(n);
       printf("%f\t",result);
44 }
45 void function7(int n)
46 - {
        float result;
      result=pow(2,log2(n));
printf("%f\t",result);
```

```
printf("%f\t",result);
50 }
51 void function8(int n)
52 ₹ {
        float result;
        result=n*(log2(n));
        printf("%f\t",result);
56 }
57 void function9(int n)
58 - {
        float result;
        result=log(n);
        printf("%f\t",result);
62 }
63 void function10(int n)
64 - {
        float result;
        result=pow(2,log(n));
        printf("%f\t",result);
68 }
69 int main()
70 - {
        for(int i=0;i<=100;i++)</pre>
        function1(i);
        function2(i);
        function3(i);
        function4(i);
        function5(i);
        function6(i);
        function7(i);
        function8(i);
        function9(i);
        function10(i);
        printf("\n");
86 }
```

			n*(2^			log2(2^log	n*log		2^log
OBSERVA	n	1.5^n	n)	n^3	e^n	n)	2(n)	2(n)	log(n)	(n)
TION:						#NU		#NU	#NU	#NU
HON:	0	1	0	0	1	M!	0	M!	M!	M!
					2.718					
	1	1.5	2	1	282	0	1	0	0	1
	_		_	_	7.389	_		_	0.693	1.616
	2	2.25	8	8	056	1	2	2	147	807
	2	2 275	2.4	27	20.08	1.584	2	4.754	1.098	2.141
	3	3.375	24	27	554	963	3	888	612	486
	4	5.062 5	64	64	54.59 815	2	4	8	1.386 294	2.614 064
	4	7.593	04	04	148.4	2.321	4	11.60	1.609	3.051
	5	7.595	160	125	132	928	5	964	438	3.031
	,	11.39	100	123	403.4	2.584	J	15.50	1.791	3.462
	6	063	384	216	288	963	6	978	759	369
	J	17.08	304	210	1096.	2.807	Ü	19.65	1.945	3.852
	7	594	896	343	633	355	7	148	91	808
		25.62			2980.		-		2.079	4.226
	8	891	2048	512	958	3	8	24	442	436
		38.44			8103.	3.169		28.52	2.197	4.585
	9	336	4608	729	084	925	9	933	225	963
		57.66			22026	3.321		33.21	2.302	4.933
	10	504	10240	1000	.47	928	10	928	585	41
		86.49			59874	3.459		38.05	2.397	5.270
	11	756	22528	1331	.14	432	11	375	895	337
		129.7			16275	3.584		43.01	2.484	5.597
	12	463	49152	1728	4.8	963	12	955	907	981
		194.6	10649		44241	3.700		48.10	2.564	5.917
	13	195	6	2197	3.4	44	13	572	949	342
		291.9	22937	2744	12026	3.807		53.30	2.639	6.229
	14	293	6		04	355	14		057	245
	15	437.8		2275		3.906	15	58.60	2.708	6.534
	15	939 656.8	0 10485	33/5	17 88861	891	15	336	05 2.772	379 6.833
	16	408	10485 76		11	4	16	64	589	33
	10	985.2	22282	4096	24154	4.087	10	69.48	2.833	7.126
	17	613	24	4913		4.087	17		2.833	597
	1,	1477.	47185	4313	65659	4.169	1/	75.05	2.890	7.414
	18	892	92		969	925	18	865	372	615
		2216.	99614	3032	1.78E	4.247	10	80.71	2.944	7.697
	19	838	72	6859	+08	928	19	062	439	7.057
				0033			13			
	20	257	520			928		856	732	37
		3325.	20971		4.85E	4.321		86.43	2.995	7.976

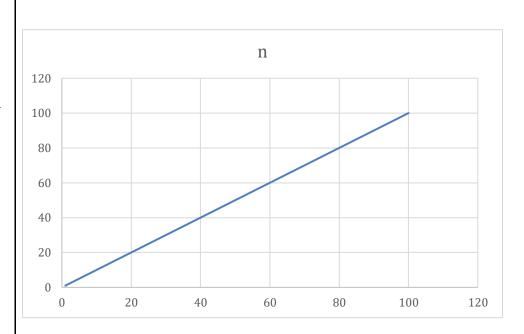
T .									
	4987.	44040		1.32E	4.392		92.23	3.044	8.250
21	885	192	9261	+09	317	21	867	522	734
	7481.	92274	1064	3.58E	4.459		98.10	3.091	8.521
22	828	688	8	+09	432	22	75	042	116
	11222	1.93E	1216	9.74E	4.523		104.0	3.135	8.787
23	.74	+08	7	+09	562	23	419	494	752
	16834	4.03E	1382	2.65E	4.584		110.0	3.178	9.050
24	.11	+08	4	+10	963	24	391	054	853
	25251	8.39E	1562	7.2E+	4.643		116.0	3.218	9.310
25	.17	+08	5	10	856	25	964	876	611
	37876	1.74E	1757	1.96E	4.700		122.2	3.258	9.567
26	.75	+09	6	+11	44	26	114	097	199
	56815	3.62E	1968	5.32E	4.754		128.3	3.295	9.820
27	.13	+09	3	+11	888	27	82	837	775
	85222	7.52E	2195	1.45E	4.807		134.6	3.332	10.07
28	.69	+09	2	+12	355	28	059	205	148
	12783	1.56E	2438	3.93E	4.857		140.8	3.367	10.31
29	4	+10	9	+12	981	29	814	296	946
	19175	3.22E	2700	1.07E	4.906		147.2	3.401	10.56
30	1.1	+10	0	+13	891	30	067	197	483
	28762	6.66E	2979	2.9E+	4.954		153.5	3.433	10.80
31	6.6	+10	1	13	196	31	801	987	77
	43143	1.37E	3276	7.9E+				3.465	11.04
32	9.9	+11	8	13	5	32	160	736	817
	64715	2.83E	3593	2.15E	5.044		166.4	3.496	11.28
33	9.8	+11	7	+14	394	33	65	508	635
	97073	5.84E	3930	5.83E	5.087		172.9	3.526	11.52
34	9.7	+11	4	+14	463	34	737	361	233
	14561	1.2E+	4287	1.59E	5.129		179.5	3.555	11.75
35	10	12	5		283	35		348	618
	21841	2.47E	4665	4.31E	5.169		186.1	3.583	11.98
36	64	+12	6	+15	925	36	173	519	8
	32762	5.09E	5065	1.17E			192.7		12.21
37	47	+12	3	+16	453	37		918	784
	49143	1.04E	5487	3.19E	5.247		199.4	3.637	12.44
38	70	+13	2	+16	928	38		586	579
	73715	2.14E	5931	8.66E	5.285		206.1	3.663	12.67
39	55	+13	9	+16	402	39	307	562	191
	11057	4.4E+	6400	2.35E	5.321		212.8	3.688	12.89
40	332	13	0	+17	928	40	771	879	625
	16585	9.02E	6892	6.4E+	5.357		219.6	3.713	13.11
41	998	+13	1	17	552	41	596	572	887
	24878	1.85E	7408	1.74E	5.392		226.4	3.737	13.33
42	998	+14	8	+18	317	42	773	67	984
	37318	3.78E	7950	4.73E	5.426		233.3	3.761	13.55
43	497	+14	7	+18	265	43	294	2	92

83966 1.58E 9112 3.49E 5.491 247.1 3.806 13.99 45		55977	7.74E	8518	1.29E	5.459		240.2	3.784	13.77
45	44	745	+14	4	+19	432	44	15	19	7
1.26E 3.24E 9733 9.5E+ 5.523 254.0 3.828 14.20 46		83966	1.58E	9112	3.49E	5.491		247.1	3.806	13.99
1.89E 6.61E 1038 2.58E 5.554 261.0 3.885 14.42 47	45	617	+15	5	+19	853	45	334	662	328
1.89E 6.61E 1038 2.58E 5.554 261.0 3.850 14.42 47		1.26E	3.24E	9733	9.5E+	5.523		254.0	3.828	14.20
47 +08 +15 23 +20 589 47 657 148 148 2.83E 1.35E 1.105 7.02E 5.584 268.0 3.871 1463 48 +08 +16 92 +20 963 48 782 201 348 49 +08 +16 49 +21 71 49 208 82 413 50 +08 +16 00 +21 856 50 928 023 346 9.56E 1.15E 1326 1.41E 5.672 289.2 3.931 15.26 51 +08 +17 51 +22 425 51 937 826 151 1.43E 2.34E 1406 3.83E 5.700 296.4 3.951 15.46 52 +09 +17 77 +23 92 53 39.70 15.67 53 +09 +17 77 <td< th=""><th>46</th><th>+08</th><th>+15</th><th>6</th><th>19</th><th>562</th><th>46</th><th>838</th><th>641</th><th>81</th></td<>	46	+08	+15	6	19	562	46	838	641	81
48 +08 +16 92 +20 963 48 782 201 348 49 +08 +16 49 +20 963 48 782 201 348 49 +08 +16 49 +21 71 49 208 82 413 6.38E 5.63E 1250 5.18E 5.643 282.1 3.912 15.05 50 +08 +16 00 +21 856 50 928 023 346 9.56E 1.15E 1326 1.41E 5.672 289.2 3.931 15.26 51 +08 +17 51 +22 425 51 937 826 151 1.43E 2.34E 1406 3.83E 5.700 296.4 3.951 15.46 52 +09 +17 78 +22 44 52 229 244 831 2.15E 4.77E 1488 1.04E 5.727 303.5 3.970 15.67 53 +09 +		1.89E	6.61E	1038	2.58E	5.554		261.0	3.850	14.42
48 +08 +16 92 +20 963 48 782 201 348 49 +08 +16 49 +21 71 49 208 82 413 6.38E 5.63E 1250 5.18E 5.643 282.1 3.912 15.05 50 +08 +16 00 +21 856 50 928 023 346 51 +08 +17 51 +22 425 51 937 826 151 1.43E 2.34E 1406 3.83E 5.700 296.4 3.951 15.46 52 +09 +17 70 +22 44 52 229 244 831 53 +09 +17 77 +23 92 53 3.970 15.67 53 +09 +17 77 +23 92 53 3.98 15.67 53 +09 +17 77	47	+08	+15	23	+20	589	47	657	148	148
49 +08 +16 49 +21 71 49 208 82 413 638E 5.63E 1250 5.18E 5.643 282.1 3.912 15.05 50 +08 +16 00 +21 856 50 928 023 346 51 +08 +17 51 +22 425 51 937 826 151 1.43E 2.34E 1406 3.83E 5.700 296.4 3.951 15.26 51 +08 +17 51 +22 445 52 299 244 831 52 +09 +17 08 +22 44 52 229 244 831 53 +09 +17 77 +23 92 53 798 292 39 3.23E 9.73E 1574 2.83E 5.754 310.7 3.988 15.87 54 +09 +18 75 +23 36 55 748 333 153 7.26E 4		2.83E	1.35E	1105	7.02E	5.584		268.0	3.871	14.63
49 +08 +16 49 +21 71 49 208 82 413 50 +08 +16 00 +21 856 50 928 023 346 9.56E 1.15E 1326 1.41E 5.672 289.2 3.931 15.26 51 +08 +17 51 +22 425 51 937 826 151 1.43E 2.34E 1406 3.83E 5.700 296.4 3.951 15.46 52 +09 +17 08 +22 44 52 229 244 831 2.15E 4.77E 1488 1.04E 5.777 303.5 3.970 15.67 53 +09 +17 77 +23 92 53 798 292 39 3.23E 9.73E 1574 2.83E 5.754 310.7 3.988 15.87 54 +09 +18 75 +23 36 55 748 333 153 55 +09 +18<	48	+08	+16	92	+20	963	48	782	201	348
50 +08 +16 00 +21 856 50 928 023 346 9.56E 1.15E 1326 1.41E 5.672 289.2 3.931 15.26 51 +08 +17 51 +22 425 51 937 826 151 1.43E 2.34E 1406 3.83E 5.700 296.4 3.951 15.66 52 +09 +17 08 +22 44 52 229 244 831 53 +09 +17 77 +23 92 53 798 292 39 3.23E 9.73E 1574 2.83E 5.754 310.7 3.988 15.87 54 +09 +17 64 +23 888 54 639 984 829 4.84E 1.98E 1663 7.69E 5.781 310.7 3.988 15.87 55 +09 +18 75 +23 <th></th> <th>4.25E</th> <th>2.76E</th> <th>1176</th> <th>1.91E</th> <th>5.614</th> <th></th> <th>275.1</th> <th>3.891</th> <th>14.84</th>		4.25E	2.76E	1176	1.91E	5.614		275.1	3.891	14.84
50 +08 +16 00 +21 856 50 928 023 346 9.56E 1.15E 1326 1.41E 5.672 289.2 3.931 15.26 51 +08 +17 51 +22 425 51 937 826 151 1.43E 2.34E 1406 3.83E 5.700 296.4 3.951 15.46 52 +09 +17 08 +22 44 52 229 244 831 53 +09 +17 77 +23 92 53 798 292 39 3.23E 9.73E 1574 2.83E 5.754 310.7 3.988 15.87 54 +09 +17 76 4 +23 888 54 639 984 829 4.84E 1.98E 1663 7.69E 5.781 317.9 4.007 16.08 55 +09 +18 75 +23<	49	+08	+16	49	+21	71	49	208	82	413
51 +08 +17 51 +22 425 51 937 826 151 1.43E 2.34E 1406 3.83E 5.700 296.4 3.951 15.46 52 +09 +17 08 +22 44 52 229 244 831 52 +09 +17 77 +23 92 53 798 292 39 53 +09 +17 77 +23 92 53 798 292 39 54 +09 +17 64 +23 888 54 639 984 829 4.84E 1.98E 1663 7.69E 5.781 310.7 3.988 15.87 55 +09 +18 75 +23 36 55 748 333 153 7.26E 4.04E 1756 2.09E 5.807 325.2 4.025 16.28 57 +10 +18 93 <th></th> <th>6.38E</th> <th>5.63E</th> <th>1250</th> <th>5.18E</th> <th>5.643</th> <th></th> <th>282.1</th> <th>3.912</th> <th>15.05</th>		6.38E	5.63E	1250	5.18E	5.643		282.1	3.912	15.05
51 +08 +17 51 +22 425 51 937 826 151 1.43E 2.34E 1406 3.83E 5.700 296.4 3.951 15.46 52 +09 +17 08 +22 44 52 229 244 831 53 +09 +17 77 +23 92 53 798 292 39 3.23E 9.73E 1574 2.83E 5.754 310.7 3.988 15.87 54 +09 +17 64 +23 888 54 639 984 829 4.84E 1.98E 1663 7.69E 5.781 317.9 4.007 16.08 55 +09 +18 75 +23 36 55 748 333 153 7.26E 4.04E 1756 2.09E 5.807 325.2 4.025 16.28 56 +09 +18 16 +24 <th>50</th> <th>+08</th> <th>+16</th> <th>00</th> <th>+21</th> <th>856</th> <th>50</th> <th>928</th> <th>023</th> <th>346</th>	50	+08	+16	00	+21	856	50	928	023	346
1.43E 2.34E 1406 3.83E 5.700 296.4 3.951 15.46 52 +09 +17 08 +22 44 52 229 244 831 2.15E 4.77E 1488 1.04E 5.727 303.5 3.970 15.67 53 +09 +17 77 +23 92 53 798 292 39 3.23E 9.73E 1574 2.83E 5.754 310.7 3.988 15.87 54 +09 +17 64 +23 888 54 639 984 829 4.84E 1.98E 1663 7.69E 5.781 317.9 4.007 16.08 55 +09 +18 75 +23 36 55 748 333 153 7.26E 4.04E 1756 2.09E 5.807 325.2 4.025 16.28 56 +09 +18 16 +24 355 56 119 352 364 1.09E 8.21E 1851 <		9.56E	1.15E	1326	1.41E	5.672		289.2	3.931	15.26
52 +09 +17 08 +22 44 52 229 244 831 2.15E 4.77E 1488 1.04E 5.727 303.5 3.970 15.67 53 +09 +17 77 +23 92 53 798 292 39 3.23E 9.73E 1574 2.83E 5.754 310.7 3.988 15.87 54 +09 +17 64 +23 888 54 639 984 829 54 +09 +18 75 +23 36 55 748 333 153 55 +09 +18 75 +23 36 55 748 333 153 7.26E 4.04E 1756 2.09E 5.807 325.2 4.025 16.28 56 +09 +18 16 +24 355 56 119 352 364 1.09E 8.21E 1851 <t< th=""><th>51</th><th>+08</th><th>+17</th><th>51</th><th>+22</th><th>425</th><th>51</th><th>937</th><th>826</th><th>151</th></t<>	51	+08	+17	51	+22	425	51	937	826	151
2.15E 4.77E 1488 1.04E 5.727 303.5 3.970 15.67 53 +09 +17 77 +23 92 53 798 292 39 3.23E 9.73E 1574 2.83E 5.754 310.7 3.988 15.87 54 +09 +17 64 +23 888 54 639 984 829 4.84E 1.98E 1663 7.69E 5.781 317.9 4.007 16.08 55 +09 +18 75 +23 36 55 748 333 153 56 +09 +18 16 +24 355 56 119 352 364 1.09E 8.21E 1851 5.69E 5.832 332.4 4.043 16.48 57 +10 +18 93 +24 89 57 747 051 465 58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ <		1.43E	2.34E	1406	3.83E	5.700		296.4	3.951	15.46
53 +09 +17 77 +23 92 53 798 292 39 3.23E 9.73E 1574 2.83E 5.754 310.7 3.988 15.87 54 +09 +17 64 +23 888 54 639 984 829 4.84E 1.98E 1663 7.69E 5.781 317.9 4.007 16.08 55 +09 +18 75 +23 36 55 748 333 153 7.26E 4.04E 1756 2.09E 5.807 325.2 4025 16.28 56 +09 +18 16 +24 355 56 119 352 364 1.09E 8.21E 1851 5.69E 5.832 332.4 4.043 16.48 57 +10 +18 93 +24 89 57 747 051 465 1.68E +10 +19 12 +25 </th <th>52</th> <th>+09</th> <th>+17</th> <th>08</th> <th>+22</th> <th>44</th> <th>52</th> <th>229</th> <th>244</th> <th>831</th>	52	+09	+17	08	+22	44	52	229	244	831
3.23E 9.73E 1574 2.83E 5.754 310.7 3.988 15.87 54 +09 +17 64 +23 888 54 639 984 829 4.84E 1.98E 1663 7.69E 5.781 317.9 4.007 16.08 55 +09 +18 75 +23 36 55 748 333 153 56 +09 +18 16 +24 355 56 119 352 364 1.09E 8.21E 1851 5.69E 5.832 332.4 4.043 16.48 57 +10 +18 93 +24 89 57 747 051 465 1.63E 1.67E 1951 1.55E 5.857 339.7 4.060 16.68 58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.077 16.88 59 +10 19 79		2.15E	4.77E	1488	1.04E	5.727		303.5	3.970	15.67
54 +09 +17 64 +23 888 54 639 984 829 4.84E 1.98E 1663 7.69E 5.781 317.9 4.007 16.08 55 +09 +18 75 +23 36 55 748 333 153 7.26E 4.04E 1756 2.09E 5.807 325.2 4.025 16.28 56 +09 +18 16 +24 355 56 119 352 364 1.09E 8.21E 1851 5.69E 5.832 332.4 4.043 16.48 57 +10 +18 93 +24 89 57 747 051 465 1.63E 1.67E 1951 1.55E 5.857 339.7 4.060 16.68 58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.077 16.88 59 +10 19 79	53	+09	+17	77	+23	92	53	798	292	39
4.84E 1.98E 1663 7.69E 5.781 317.9 4.007 16.08 55 +09 +18 75 +23 36 55 748 333 153 7.26E 4.04E 1756 2.09E 5.807 325.2 4.025 16.28 56 +09 +18 16 +24 355 56 119 352 364 1.09E 8.21E 1851 5.69E 5.832 332.4 4.043 16.48 57 +10 +18 93 +24 89 57 747 051 465 1.63E 1.67E 1951 1.55E 5.857 339.7 4.060 16.68 58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.060 16.68 59 +10 19 79 25 643 59 759 537 345 60 +10 +19 00<		3.23E	9.73E	1574	2.83E	5.754		310.7	3.988	15.87
55 +09 +18 75 +23 36 55 748 333 153 7.26E 4.04E 1756 2.09E 5.807 325.2 4.025 16.28 56 +09 +18 16 +24 355 56 119 352 364 1.09E 8.21E 1851 5.69E 5.832 332.4 4.043 16.48 57 +10 +18 93 +24 89 57 747 051 465 1.63E 1.67E 1951 1.55E 5.857 339.7 4.060 16.68 58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.077 16.88 59 +10 19 79 25 643 59 759 537 345 3.68E 6.92E 2160 1.14E 5.906 354.4 4.094 17.08 60 +10 +19 00<	54	+09	+17	64	+23	888	54	639	984	829
7.26E 4.04E 1756 2.09E 5.807 325.2 4.025 16.28 56 +09 +18 16 +24 355 56 119 352 364 1.09E 8.21E 1851 5.69E 5.832 332.4 4.043 16.48 57 +10 +18 93 +24 89 57 747 051 465 1.63E 1.67E 1951 1.55E 5.857 339.7 4.060 16.68 58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.077 16.88 59 +10 19 79 25 643 59 759 537 345 3.68E 6.92E 2160 1.14E 5.906 354.4 4.094 17.08 60 +10 +19 00 +26 891 60 134 345 128 5.52E 1.41E 2269		4.84E	1.98E	1663	7.69E	5.781		317.9	4.007	16.08
56 +09 +18 16 +24 355 56 119 352 364 1.09E 8.21E 1851 5.69E 5.832 332.4 4.043 16.48 57 +10 +18 93 +24 89 57 747 051 465 1.63E 1.67E 1951 1.55E 5.857 339.7 4.060 16.68 58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.077 16.88 59 +10 19 79 25 643 59 759 537 345 3.68E 6.92E 2160 1.14E 5.906 354.4 4.094 17.08 60 +10 +19 00 +26 891 60 134 345 128 5.52E 1.41E 2269 3.1E+ 5.930 361.7 4.110 17.27 61 +10 +20 81	55	+09	+18	75	+23	36	55	748	333	153
1.09E 8.21E 1851 5.69E 5.832 332.4 4.043 16.48 57 +10 +18 93 +24 89 57 747 051 465 1.63E 1.67E 1951 1.55E 5.857 339.7 4.060 16.68 58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.077 16.88 59 +10 19 79 25 643 59 759 537 345 3.68E 6.92E 2160 1.14E 5.906 354.4 4.094 17.08 60 +10 +19 00 +26 891 60 134 345 128 5.52E 1.41E 2269 3.1E+ 5.930 361.7 4.110 17.27 61 +10 +20 81 26 737 61 75 874 811 8.27E 2.86E 2383 <t< th=""><th></th><th>7.26E</th><th>4.04E</th><th>1756</th><th>2.09E</th><th>5.807</th><th></th><th>325.2</th><th>4.025</th><th>16.28</th></t<>		7.26E	4.04E	1756	2.09E	5.807		325.2	4.025	16.28
57 +10 +18 93 +24 89 57 747 051 465 1.63E 1.67E 1951 1.55E 5.857 339.7 4.060 16.68 58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.077 16.88 59 +10 19 79 25 643 59 759 537 345 3.68E 6.92E 2160 1.14E 5.906 354.4 4.094 17.08 60 +10 +19 00 +26 891 60 134 345 128 5.52E 1.41E 2269 3.1E+ 5.930 361.7 4.110 17.27 61 +10 +20 81 26 737 61 75 874 811 8.27E 2.86E 2383 8.44E 5.954 369.1 4.127 17.47 62 +10 +20 28 </th <th>56</th> <th>+09</th> <th>+18</th> <th>16</th> <th>+24</th> <th>355</th> <th>56</th> <th>119</th> <th>352</th> <th>364</th>	56	+09	+18	16	+24	355	56	119	352	364
1.63E 1.67E 1951 1.55E 5.857 339.7 4.060 16.68 58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.077 16.88 59 +10 19 79 25 643 59 759 537 345 3.68E 6.92E 2160 1.14E 5.906 354.4 4.094 17.08 60 +10 +19 00 +26 891 60 134 345 128 5.52E 1.41E 2269 3.1E+ 5.930 361.7 4.110 17.27 61 +10 +20 81 26 737 61 75 874 811 8.27E 2.86E 2383 8.44E 5.954 369.1 4.127 17.47 62 +10 +20 28 +26 196 62 602 134 396 1.24E 5.81E 2500 <		1.09E	8.21E	1851	5.69E	5.832		332.4	4.043	16.48
58 +10 +19 12 +25 981 58 629 443 457 2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.077 16.88 59 +10 19 79 25 643 59 759 537 345 3.68E 6.92E 2160 1.14E 5.906 354.4 4.094 17.08 60 +10 +19 00 +26 891 60 134 345 128 5.52E 1.41E 2269 3.1E+ 5.930 361.7 4.110 17.27 61 +10 +20 81 26 737 61 75 874 811 8.27E 2.86E 2383 8.44E 5.954 369.1 4.127 17.47 62 +10 +20 28 +26 196 62 602 134 396 1.24E 5.81E 2500 2.29E 5.977 376.5 4.143 17.66 63 +11 +20 47<	57	+10	+18	93	+24	89	57	747	051	465
2.45E 3.4E+ 2053 4.2E+ 5.882 347.0 4.077 16.88 59 +10 19 79 25 643 59 759 537 345 3.68E 6.92E 2160 1.14E 5.906 354.4 4.094 17.08 60 +10 +19 00 +26 891 60 134 345 128 5.52E 1.41E 2269 3.1E+ 5.930 361.7 4.110 17.27 61 +10 +20 81 26 737 61 75 874 811 8.27E 2.86E 2383 8.44E 5.954 369.1 4.127 17.47 62 +10 +20 28 +26 196 62 602 134 396 1.24E 5.81E 2500 2.29E 5.977 376.5 4.143 17.66 63 +11 +20 47 +27 28 63 686 135 883 1.86E 1.18E 2621 <t< th=""><th></th><th>1.63E</th><th>1.67E</th><th>1951</th><th>1.55E</th><th>5.857</th><th></th><th></th><th>4.060</th><th>16.68</th></t<>		1.63E	1.67E	1951	1.55E	5.857			4.060	16.68
59 +10 19 79 25 643 59 759 537 345 3.68E 6.92E 2160 1.14E 5.906 354.4 4.094 17.08 60 +10 +19 00 +26 891 60 134 345 128 5.52E 1.41E 2269 3.1E+ 5.930 361.7 4.110 17.27 61 +10 +20 81 26 737 61 75 874 811 8.27E 2.86E 2383 8.44E 5.954 369.1 4.127 17.47 62 +10 +20 28 +26 196 62 602 134 396 1.24E 5.81E 2500 2.29E 5.977 376.5 4.143 17.66 63 +11 +20 47 +27 28 63 686 135 883 1.86E 1.18E 2621 6.24E 4.158 17.86 64 +11 +21 44 +27 6	58			12	+25	981	58		443	
3.68E 6.92E 2160 1.14E 5.906 354.4 4.094 17.08 60 +10 +19 00 +26 891 60 134 345 128 5.52E 1.41E 2269 3.1E+ 5.930 361.7 4.110 17.27 61 +10 +20 81 26 737 61 75 874 811 8.27E 2.86E 2383 8.44E 5.954 369.1 4.127 17.47 62 +10 +20 28 +26 196 62 602 134 396 1.24E 5.81E 2500 2.29E 5.977 376.5 4.143 17.66 63 +11 +20 47 +27 28 63 686 135 883 1.86E 1.18E 2621 6.24E 4.158 17.86 64 +11 +21 44 +27 6 64 384 883 276 2.79E 2.4E+ 2746 1.69E 6.022 391.4 4.174 18.05 65 +11 21 25 +28 368 65 539 387 576			3.4E+							
60	59						59			
5.52E 1.41E 2269 3.1E+ 5.930 361.7 4.110 17.27 61 +10 +20 81 26 737 61 75 874 811 8.27E 2.86E 2383 8.44E 5.954 369.1 4.127 17.47 62 +10 +20 28 +26 196 62 602 134 396 1.24E 5.81E 2500 2.29E 5.977 376.5 4.143 17.66 63 +11 +20 47 +27 28 63 686 135 883 1.86E 1.18E 2621 6.24E 4.158 17.86 64 +11 +21 44 +27 6 64 384 883 276 2.79E 2.4E+ 2746 1.69E 6.022 391.4 4.174 18.05 65 +11 21 25 +28 368 65 539 387 576										
61	60						60			
8.27E 2.86E 2383 8.44E 5.954 369.1 4.127 17.47 62 +10 +20 28 +26 196 62 602 134 396 1.24E 5.81E 2500 2.29E 5.977 376.5 4.143 17.66 63 +11 +20 47 +27 28 63 686 135 883 1.86E 1.18E 2621 6.24E 4.158 17.86 64 +11 +21 44 +27 6 64 384 883 276 2.79E 2.4E+ 2746 1.69E 6.022 391.4 4.174 18.05 65 +11 21 25 +28 368 65 539 387 576										
62	61						61			
1.24E 5.81E 2500 2.29E 5.977 376.5 4.143 17.66 63 +11 +20 47 +27 28 63 686 135 883 1.86E 1.18E 2621 6.24E 4.158 17.86 64 +11 +21 44 +27 6 64 384 883 276 2.79E 2.4E+ 2746 1.69E 6.022 391.4 4.174 18.05 65 +11 21 25 +28 368 65 539 387 576										
63	62						62			
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64 +11 +21 44 +27 6 64 384 883 276 2.79E 2.4E+ 2746 1.69E 6.022 391.4 4.174 18.05 65 +11 21 25 +28 368 65 539 387 576	63					28	63	686		
2.79E 2.4E+ 2746 1.69E 6.022 391.4 4.174 18.05 65 +11 21 25 +28 368 65 539 387 576										
65 +11 21 25 +28 368 65 539 387 576	64						64			
I 440F 407F 3074 4C4F C044 3000 4400 4034	65						65			
		4.19E	4.87E	2874	4.61E	6.044		398.9	4.189	18.24
66 +11 +21 96 +28 394 66 3 655 785	66	+11	+21	96	+28	394	66	3	655	785

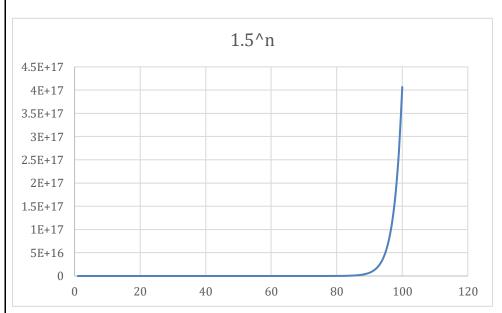
	6 205	0.005	2007	4 255	C 0CC		406.4	4 204	40.42
	6.28E	9.89E	3007	1.25E	6.066		406.4	4.204	18.43
67	+11	+21	63	+29	089	67	28	693	905
	9.42E	2.01E	3144	3.4E+	6.087		413.9	4.219	18.62
68	+11	+22	32	29	463	68	475	508	938
	1.41E	4.07E	3285	9.25E	6.108		421.4	4.234	18.81
69	+12	+22	09	+29	524	69	882	107	885
	2.12E	8.26E	3430	2.52E	6.129		429.0	4.248	19.00
70	+12	+22	00	+30	283	70	498	495	748
, 0	3.18E	1.68E	3579	6.84E	6.149	, 0	436.6	4.262	19.19
71	+12	+23	11	+30	747		32	68	528
/1						/1			
70	4.77E	3.4E+	3732	1.86E	6.169	70	444.2	4.276	19.38
72	+12	23	48	+31	925	72	346	666	228
	7.16E	6.89E	3890	5.05E	6.189		451.8	4.290	19.56
73	+12	+23	17	+31	825	73	572	459	848
	1.07E	1.4E+	4052	1.37E	6.209		459.4	4.304	19.75
74	+13	24	24	+32	453	74	995	065	389
	1.61E	2.83E	4218	3.73E	6.228		467.1	4.317	19.93
75	+13	+24	75	+32	819	75	614	488	854
	2.42E	5.74E	4389	1.01E	6.247		474.8	4.330	20.12
76	+13	+24	76	+33	928	76	425	733	244
	3.62E	1.16E	4565	2.76E	6.266		482.5	4.343	20.30
77	+13	+25	33	+33	787	77	426	805	56
, ,	5.43E	2.36E	4745	7.5E+	6.285	,,	490.2	4.356	20.48
78	+13	+25	52	33	402	78	614	709	802
70						70			
70	8.15E	4.78E	4930	2.04E	6.303	70	497.9	4.369	20.66
79	+13	+25	39	+34	781	79	987	448	973
	1.22E	9.67E	5120	5.54E	6.321		505.7	4.382	20.85
80	+14	+25	00	+34	928	80	542	027	074
	1.83E	1.96E	5314	1.51E	6.339		513.5	4.394	21.03
81	+14	+26	41	+35	85	81	279	449	105
	2.75E	3.97E	5513	4.09E	6.357		521.3	4.406	21.21
82	+14	+26	68	+35	552	82	193	719	068
	4.13E	8.03E	5717	1.11E	6.375		529.1	4.418	21.38
83	+14	+26	87	+36	039	83	283	841	964
	6.19E	1.62E	5927	3.03E	6.392		536.9	4.430	21.56
84	+14	+27	04	+36	317	84	547	817	794
	9.28E	3.29E	6141	8.22E	6.409		544.7	4.442	21.74
85	+14	+27	25	+36	391	85	982	651	559
O3	1.39E	6.65E	6360	2.24E	6.426	03	552.6	4.454	21.92
86	+15	+27	56	+37	265	86	588	347	21.92
00						00			
07	2.09E	1.35E	6585	6.08E	6.442	07	560.5	4.465	22.09
87	+15	+28	03	+37	943	87	361	908	898
	3.13E	2.72E	6814	1.65E	6.459		568.4	4.477	22.27
88	+15	+28	72	+38	432	88	3	337	474
	4.7E+	5.51E	7049	4.49E	6.475		576.3	4.488	22.44
89	15	+28	69	+38	733	89	403	636	989
 •									

	7.05E	1.11E	7290	1.22E	6.491		584.2	4.499	22.62
90	+15	+29	00	+39	853	90	668	81	443
	1.06E	2.25E	7535	3.32E	6.507		592.2	4.510	22.79
91	+16	+29	71	+39	795	91	093	86	838
	1.59E	4.56E	7786	9.02E	6.523		600.1	4.521	22.97
92	+16	+29	88	+39	562	92	677	789	175
	2.38E	9.21E	8043	2.45E	6.539		608.1	4.532	23.14
93	+16	+29	57	+40	159	93	418	599	453
	3.57E	1.86E	8305	6.66E	6.554		616.1	4.543	23.31
94	+16	+30	84	+40	589	94	314	295	675
	5.35E	3.76E	8573	1.81E	6.569		624.1	4.553	23.48
95	+16	+30	75	+41	856	95	363	877	841
	8.03E	7.61E	8847	4.92E	6.584		632.1	4.564	23.65
96	+16	+30	36	+41	963	96	564	348	951
	1.2E+	1.54E	9126	1.34E	6.599		640.1	4.574	23.83
97	17	+31	73	+42	913	97	915	711	006
	1.81E	3.11E	9411	3.64E	6.614		648.2	4.584	24.00
98	+17	+31	92	+42	71	98	416	967	800
	2.71E	6.27E	9702	9.89E	6.629		656.3	4.595	24.16
99	+17	+31	99	+42	357	99	063	12	957
	4.07E	1.27E	1000	2.69E	6.643		664.3	4.605	24.33
100	+17	+32	000	+43	856	100	856	17	853

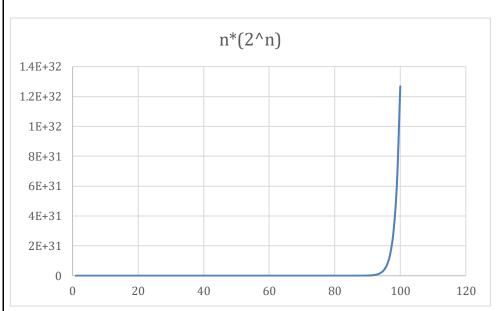
OBSERVA TION TABLE:



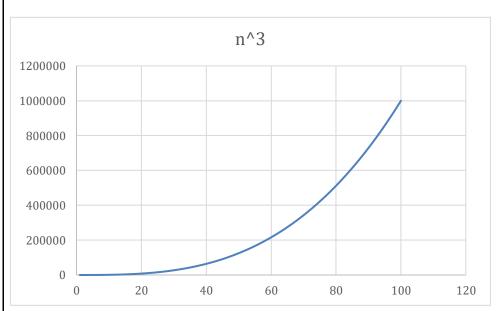
Here, the graph is a straight line since the input values are constantly increasing.



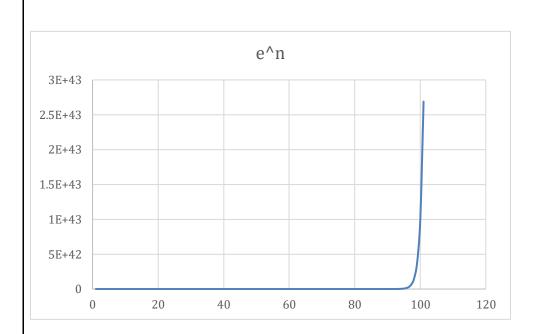
Here, the graph is constantly increasing but since the scale is large so it is negligible and after a given value the graph increases exponentially.



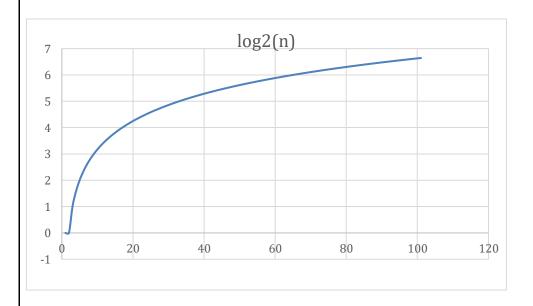
Here, the graph is constantly increasing but since the scale is large so it is negligible and after a given value the graph increases exponentially.



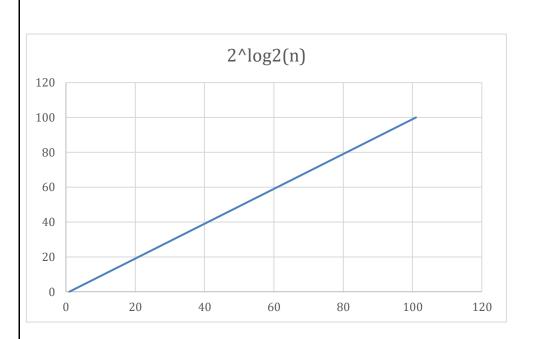
Here, the graph increases exponentially for origin to last number.



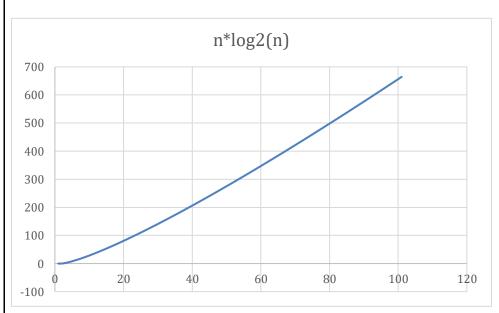
Here, the graph is constantly increasing but since the scale is large so it is negligible and after a given value the graph increases exponentially and its x-axis remains constant.



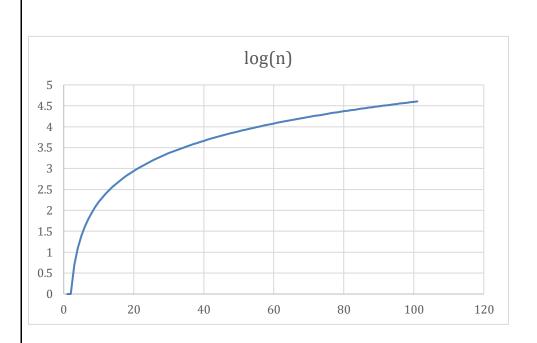
The graph is exponential and it increases with x-axis in a straight line after a given point.



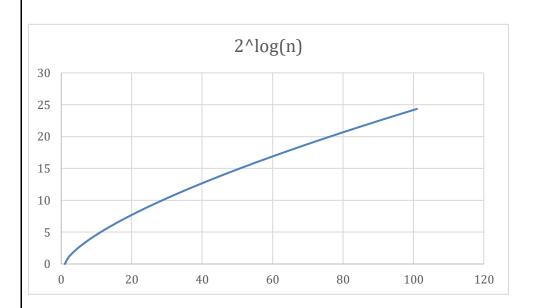
Here, the graph is a straight line since the input values are constantly increasing.



Here, there is near about linear growth but not actually linear growth there is little bit tilt in this graph.



Here, the graph is an exponential graph.



Here, at first graph increases exponentially but after a given point it is almost linear.

CONCLUS ION:	Successfully performed the experiment of implementing any 10 mathematical functions in C Language and plot the graph in Excel sheet and also learned how to draw the graph in Excel sheet.