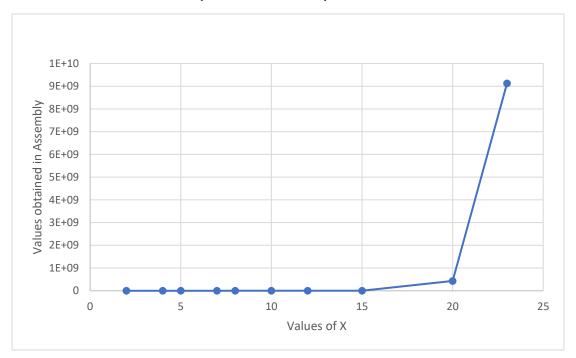
Report for Exponential Series:

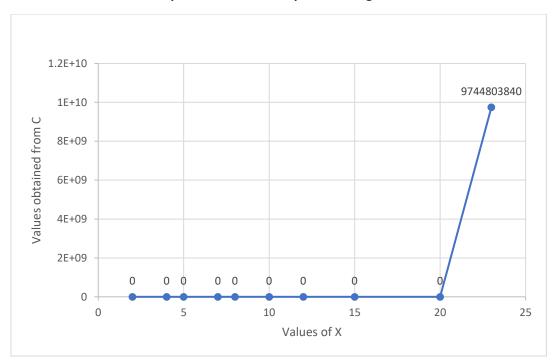
$$e^x = \sum_{n=0}^{\infty} rac{x^n}{n!} = 1 + x + rac{x^2}{2!} + rac{x^3}{3!} + \cdots$$

Exponential Series e^x									
Values of x	Calculated Value	Value obtained from Keil in Assembly	Number of iterations	Value obtained from Keil in C					
2	7.389056099	7.38906	20	7.389056					
4	54.59815003	54.5982	20	54.598148					
5	148.4131591	148.413	20	148.413162					
7	1096.633158	1096.62	20	1096.633179					
8	2980.957987	2980.68	20	2980.958008					
10	22026.46579	21991.5	20	22026.464844					
12	162754.7914	160867	20	162754.796875					
15	3269017.372	3248800	25	3269017					
20	485165195.4	430737000	25	485165184					
23	9744803446	9120970000	30	9744803840					

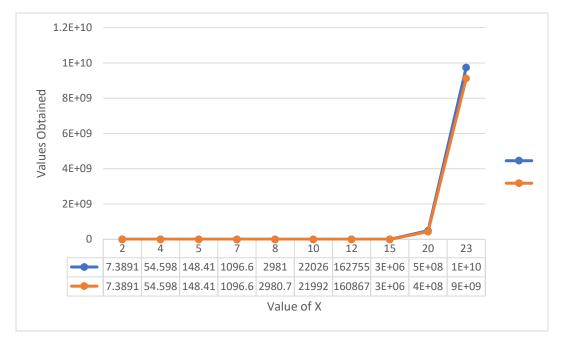
Exponential Series Graph for Keil:



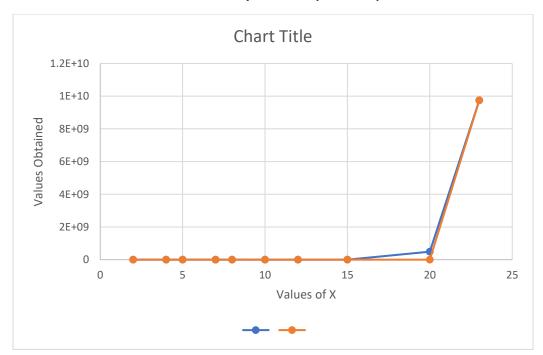
Exponential Series Graph for C Program:



Error in Values obtained by Keil with respect to Expected value:



Error in Values obtained by C with respect to Expected Value:

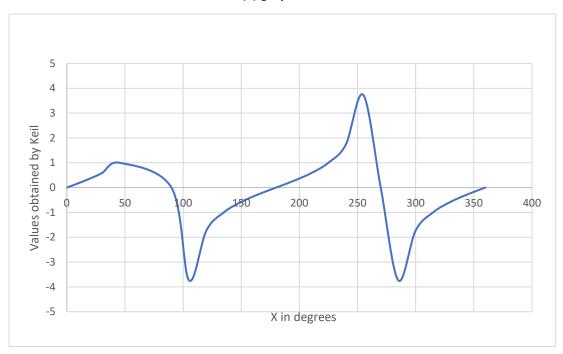


Report for Tangent Series:

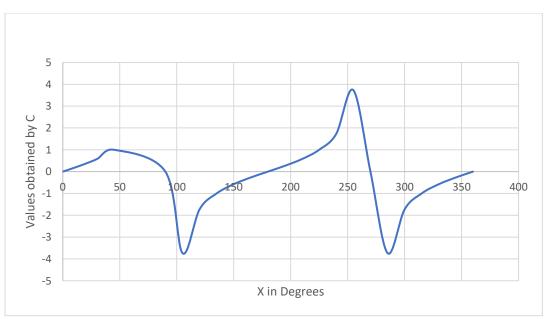
$$\begin{aligned} \tan x &= \sum_{n=0}^{\infty} \frac{U_{2n+1} x^{2n+1}}{(2n+1)!} \\ &= \sum_{n=1}^{\infty} \frac{(-1)^{n-1} 2^{2n} \left(2^{2n}-1\right) B_{2n} x^{2n-1}}{(2n)!} \\ &= x + \frac{1}{3} x^3 + \frac{2}{15} x^5 + \frac{17}{315} x^7 + \cdots, \qquad \text{for } |x| < \frac{\pi}{2}. \end{aligned}$$

Tangent Series tan(x)								
Values of X in degrees	Calculated Value	Values obtained by Keil	Values obtained by C					
0	0	0	0					
15	0.267949192	0.267949	0.2679					
30	0.577350269	0.57735	0.5773					
45	1	1	1					
90	infinte	infinte	infinte					
105	-3.732050808	-3.73204	-3.7321					
120	-1.732050808	-1.73205	-1.7321					
135	-1	-0.999998	-1					
150	-0.577350269	-0.577349	-0.5774					
165	-0.267949192	-0.267948	-0.268					
180	0	0	0					
195	0.267949192	0.267951	0.2679					
210	0.577350269	0.577352	0.5773					
225	1	1	1					
240	1.732050808	1.73206	1.732					
255	3.732050808	3.73208	3.732					
270	infinite	infinte	infinte					
285	-3.732050808	-3.73198	-3.7321					
300	-1.732050808	-1.73202	-1.732					
315	-1	-0.999964	-1					
330	-0.577350269	-0.577307	-0.5773					
345	-0.267949192	-0.267881	-0.2679					
360	0	0	0.0001					

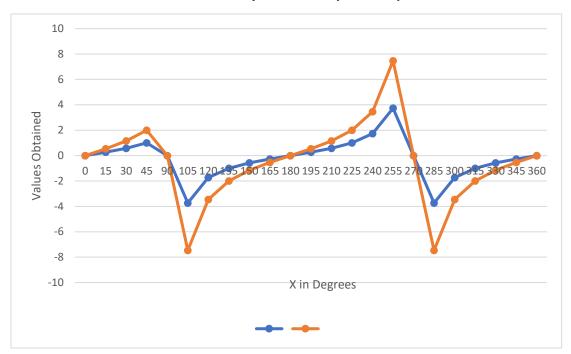
Tan(x) graph for Keil:



Tan(x) graph for C:



Error in values obtained by Keil with respect to Expected Value:



Error in values obtained by C with respect to Expected Value:

