$$C \approx \frac{\| x_k - x_{k-1} \|_\infty}{\| x_{k-1} - x_{k-2} \|_\infty}$$

C ASYMPTOTIC ERROR CONSTANT
- A CONSTANT VALUE REPRESENTING THE ASYMPTOTIC TREND OF ERROR BY ∞ NORM AT ANY POINT IN THE SERIES OF ITERATIONS

SO NOW, TO PRESENT, I .PY FILE MUST BE MADE WHICH ANSWERS

4.1.1, 4.1.2, 4.1.3

☒ 4.1.1
- RETURN BLEND NP.ARRAY

☒ 4.1.2
- RETURN PLOT OF ERROR BY ∞ NORM

☒ 4.1.3
- RETURN TABLE SHOWING SERIES OF C VALS FROM $k = \emptyset$ ($i = \emptyset$) TO $k = 2$ ($i = 2$)

(4) ADDITIONLY, SINCE TOTAL ERROR HAS ONLY 10^{-2} PRECISION OF 2 DIGITS

(5) ... W/O INCREASING PRECISION OF INTERMEDIARY CALCULATIONS (4)

PRESENT 4.1 ABS. ERROR ARE CORRECT

SO IF ALL MY NUM. RESULTS ARE CORRECT 0.375 IS THE BEST APPROX..(3)"

FOR 4.1.3; PRESENT THE FOLLOWING STATMENT,

"I THINK 0.375 IS THE BEST APPROXIMATION OF THE ASYMPTOTIC ERROR CONSTANT ('C') SINCE THE DIFFERENCE IN $X_{(k)}$ VECTOR VALUES ARE LARGEST AT THE 1ST ITERATION, WHERE 0.5 IS THE CALCULATED 'C'. AFTERWARDS Δ ARE SMALL SO. PRECISION IN ACTING C IS WORSE

(2) ... WHOSE AVERAGE IS 0.375 — SIMILAR TO 0.3 AT $k=2$

(1) ... BUT EVEN HERE THE ERRS OSCILLATE 2.5 - 0.5 ... (2)

GLSM