GROUP: SEVEN (7)

COURSE: PHY 305 – NUMERICAL COMPUTATION IN PHYSICS

LEVEL: 300

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PHY 305 ASSIGNMENT:

COMPUTING PYTHON 3 PROGRAM TO INTERPOLATE USING:

LAGRANGE INTERPOLATION METHOD

AND

NEWTON FORWARD DIFFERENCE INTERPOLATION METHOD

LAGRANGE INTERPOLATION METHOD

Example: From the given table, find the values of f(x) at x = 2 considering it to be a polynomial of order three.

Xi	0	1	3	4
$y_i = f(x_i)$	5	6	50	105

NEWTON FORWARD DIFFERENCE INTERPOLATION

Example: Interpolate the function y = f(x) at point x = 1.5 using the following data:

Xi	1	2	3	4	5	6	7	8
$y_i = f(x_i)$	1	8	27	64	125	216	343	512