

Enter the x-coordinates of the data points as row vector: [1.0 1.3 1.6 1.9 2.2]

Newton divided difference table is given as:

1.0000000	0.8414710	0.4069573	-0.4781766	-0.0198590	0.0410284
1.3000000	0.9635582	0.1200514	-0.4960496	0.0293751	0.0000000
1.6000000	0.9995736	-0.1775784	-0.4696120	0.0000000	0.0000000
1.9000000	0.9463001	-0.4593456	0.0000000	0.0000000	0.0000000
2.2000000	0.8084964	0.0000000	0.0000000	0.0000000	0.0000000

In the above table the entries of the first rows (from 2nd to 6th columns) are required to construct the interpolating polynomial.

Enter the point at which we want to find the value of the function : 1.5

The value of the interpolating polynomial (of degree less than or equal to 4 for the given data) at 1.50 is : 0.9974947

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