Task#12

Spline Interpolation

1. Obtain the cubic spline for the following data:

x	0	1	2	3
y	2	-6	-8	2

2. What is Cubic Spline Interpolation? What is advantage of this method over polynomial interpolation

3. Estimate y(6.5) using Natural Cubic Spline Interpolation technique from the following data:

x	3	5	7	9	11
y	8	10	9	12	5

4. Find y at x = 8 from the following data using Natural Cubic Spline Interpolation:

x	3	5	7	9
y	3	2	3	1