

# INDIAN INSTITUTE OF TECHNOLOGY , KHARAGPUR

## DEPARTMENT OF MATHEMATICS

### MA39110-ANT\_LAB ASSIGNMENT-07

1. Write a MATLAB CODE to calculate cubic spline for the following 4 data points. Find  $y(1.5)$  &  $y'(2)$ .

X	1	2	3	4
Y	1	5	11	8

2. Write a MATLAB CODE to calculate cubic spline for the following 5 data points. Find  $y(0.5)$ .

x	1	2	3	4	5
y	0	1	0	1	0