MATH 609-600 Numerical Analysis
Programming assignment #4
Polynomial and spline interpolation

This assignment is worth of 100 pts. Delay is penalized by 5 pts per day.

1. SPECIFICATIONS

(1) Write your own program for: (i) polynomial interpolation of data; (ii) natural cubic spline for interpolation of data.

(2) Report the computed solutions and compare the results obtained by the two different methods for the data given below. For the report use the guidelines provided by your TA.

x	0.9	1.3	1.9	2.1	2.6	3.0	3.9	4.4	4.7	5.0	6.0	7.0	8.0	9.2	10.5	11.3	11.6	12.0	12.6	13.0
y	1.3	1.5	1.85	2.1	2.6	2.7	2.4	2.15	2.05	2.1	2.25	2.3	2.25	1.95	1.4	0.9	0.7	0.6	0.5	0.4