AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPARTMENT
OF
ELECTRICAL AND ELECTRONIC ENGINEERING

LAB REPORT

COURSE NO   : EEE 2226
COURSE NAME   : Numerical Technique Laboratory
EXPERIMENT NO   : 03
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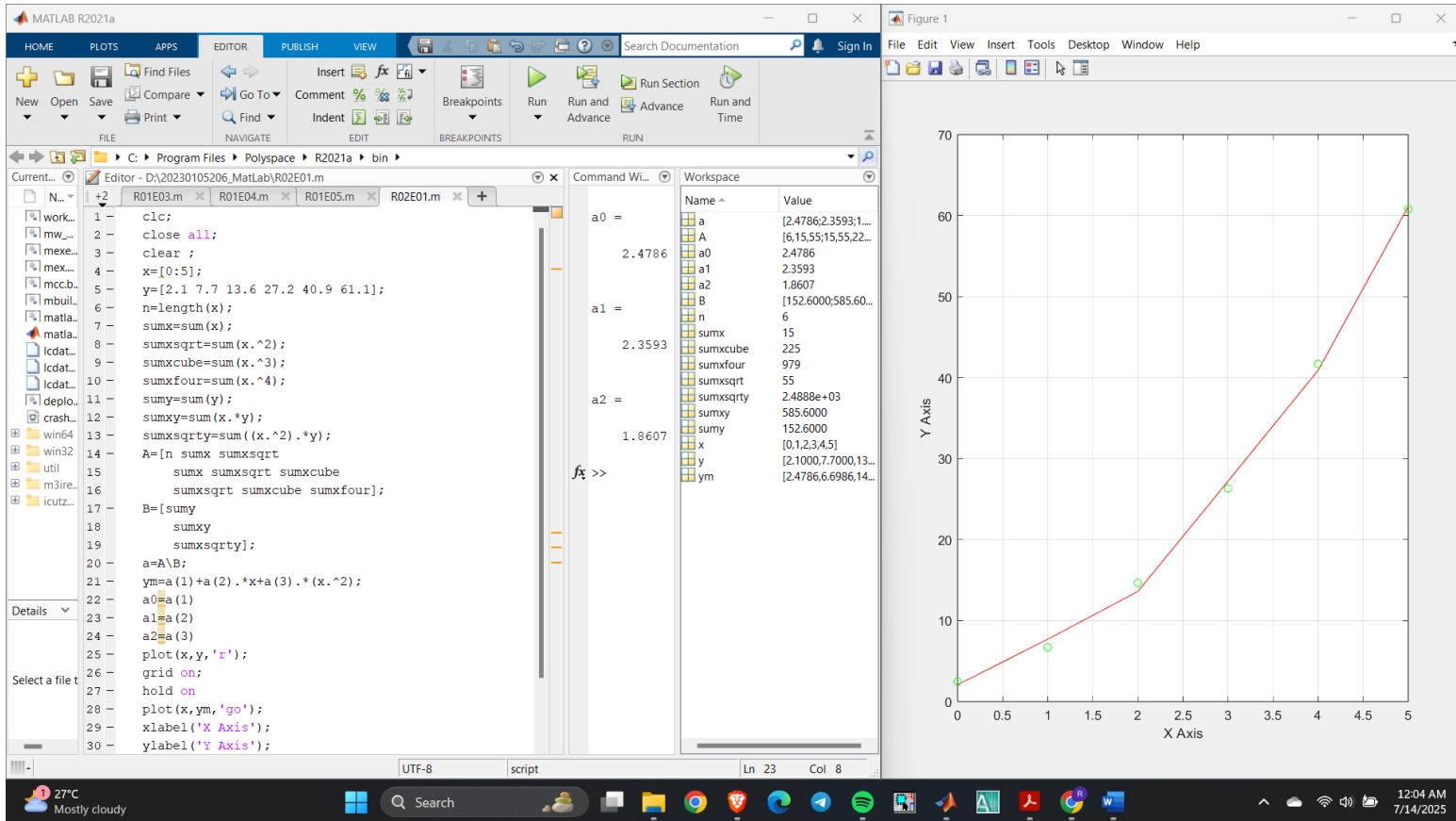   Year   : 2nd
     Semester : 2nd
     Section   : D(2)

Exercise 1:

Fit a second order polynomial to the data given in table 2

Table 2

x	y
0	2.1
1	7.7
2	13.6
3	27.2
4	40.9
5	61.1

Ans: $a_0=2.47857$, $a_1=2.35929$, $a_2=1.86071$

Exercise 2:

Fit the equation $y = a_2 x^{b_2}$ to the data given in Table 3

Table 3

x	y
1	0.5
2	1.7
3	3.4
4	5.7
5	8.4

Ans: $a_2 = 0.5$, $b_2 = 1.75$