

Introduction to Computer and Programming

Lab 1

Important notes:

- ❑ Answer the problems writing MATLAB scripts in .m files
- ❑ Do not forget to comment your code

Ex. 1 — Let $x = \begin{pmatrix} 3 \\ 2 \\ 6 \\ 8 \end{pmatrix}$ and $y = \begin{pmatrix} 4 \\ 1 \\ 3 \\ 5 \end{pmatrix}$

1. Define x and y in MATLAB
2. Add the sum of the elements in x to y
3. Raise each element of x to the power specified by the corresponding element in y
4. Divide each element of y by the corresponding element in x
5. Multiply each element in x by the corresponding element in y , and store the result in the variable z
6. Add up the elements in z and assign the result to a variable w
7. Compute $x' * y - w$ and explain the result

Ex. 2 — Write a simple MATLAB script which converts durations from seconds into days. The input should be represented as a vector of 1000 durations from 60 to 12345987 seconds.