

Problem 1

Given the matrix, $X = [1\ 2\ 3; 4\ 5\ 6; 7\ 8\ 9]$. Find the maximum and minimum value of the components and print them out along with their corresponding indices.

Problem 2

Given the matrix, $X = [1\ 2\ 3; 4\ 5\ 6; 7\ 8\ 9]$. Print out the first, the last, the second, etc. and the last but one components of X . Study rigorously the way how MatLab gives back the components!!! How would you print out a certain component using the indices of the matrix-components? Give an example to this problem!

Problem 3

Create the following matrix with if, elseif, else, end commands

```
2  -1  0  0  0  0  0  0  0  0
-1  2  -1  0  0  0  0  0  0  0
0  -1  2  -1  0  0  0  0  0  0
0  0  -1  2  -1  0  0  0  0  0
0  0  0  -1  2  -1  0  0  0  0
0  0  0  0  -1  2  -1  0  0  0
0  0  0  0  0  -1  2  -1  0  0
0  0  0  0  0  0  -1  2  -1  0
0  0  0  0  0  0  0  -1  2  -1
0  0  0  0  0  0  0  0  -1  2
```