Homework #5

Scientific Computing (501125-2) Spring 2020

Due on: Tuesday April 13, 2021, 11:59 pm via Blackboard

- 1) Write the if statement syntax.
- 2) Use TWO if statements to write a Matlab program that checks whether the entered value by a user is greater than 100 or less than or equal to 100. (Hint use: x > 100 and x <=100)
- 3) Use an if-else statement to write a Matlab program that checks whether the entered value by a user is greater than 100 or less than or equal to 100. (Hint use: x > 100 and x <=100)
- 4) Use a nested if statement to write a Matlab program that checks the student's grade. That is, the program asks the user to enter a random number and does the following:
 - If the entered grade is greater than a 100, the program prints out that "The entered grade is invalid > 100"
 - If the entered grade is between 90 and 100, the program prints out that "Your grade is A"
 - If the entered grade is greater than or equal to 80 and less than 90, the program prints out that "Your grade is B"

- If the entered grade is greater than or equal to 70 and less than 80, the program prints out that "Your grade is C"
- If the entered grade is greater than or equal to 60 and less than 70, the program prints out that "Your grade is D"
- If the entered grade is greater than or equal to 0 and less than 60, the program prints out that "Your grade is F"
- Otherwise, the program prints out that "The entered grade is invalid < 0"
- 5) What is the benefit of using cell array?
- 6) What type of brackets must we use to reference cell arrays?
- 7) Create a 2 by 3 cell array named M and fill it with the following values $\,$

M =

8) Create a 3 by 2 cell array named **Mix** and fill it with the following values

M =

9) Given the following Matlab command:

o What is the result of $M{3}$?