Lab 6. Simple Boolean operations

**MATAB statements: TRUE is denoted as 1, FALSE is denoted as 0.**

**Operators: >, >=, <, <=, ==, ~=, &(and), |(or), ~(negate)**

1. 1<2
2. 3<5
3. 5<=5
4. Define x = 2, in command window enter: x == 4, then enter: x ==2
5. Define x = ‘Digital logic’, in command window enter: x == ’Digital Logic’
6. Define x =2, in command window enter: x~=3
7. 3~=3
8. Define x = 4, in command window enter: (x == 4) | (x<5), then enter (x == 3) | (x<5)
9. Define x = 4, in command window enter: (x == 4) & (x<5), then enter (x == 3) & (x<5)
10. Define x = 4, ~((x<=5) & (x~=5))
11. Define Ficoscore = 700, Latepayment = 1. The card will be approved if Fico score is greater than 650 and no latepayment.

Question: Please create a cloth guidance digital system.

Once you enter the information below:

(1). the temperature (F degree). The parameter defined in MATLAB is ‘temp’.

(2). raining information (1/0). The parameter defined in MATLAB is ‘raining’.

(3). windy information (1/0). The parameter defined in MATLAB is ‘windy’.

The system can let you know if you need to put on the jackets and the boots. The rules that we use are:

(1). If the temperature is below 60 and it’s raining and it’s windy, then you need to wear the boots.

(2). If the temperature is below 60 or it’s raining or it’s windy, then you need to put on the jackets.

Please write the code in the indicated areas in ‘clothguidance.m’.

Test the code with temperature is 70, the weather is windy, no raining.