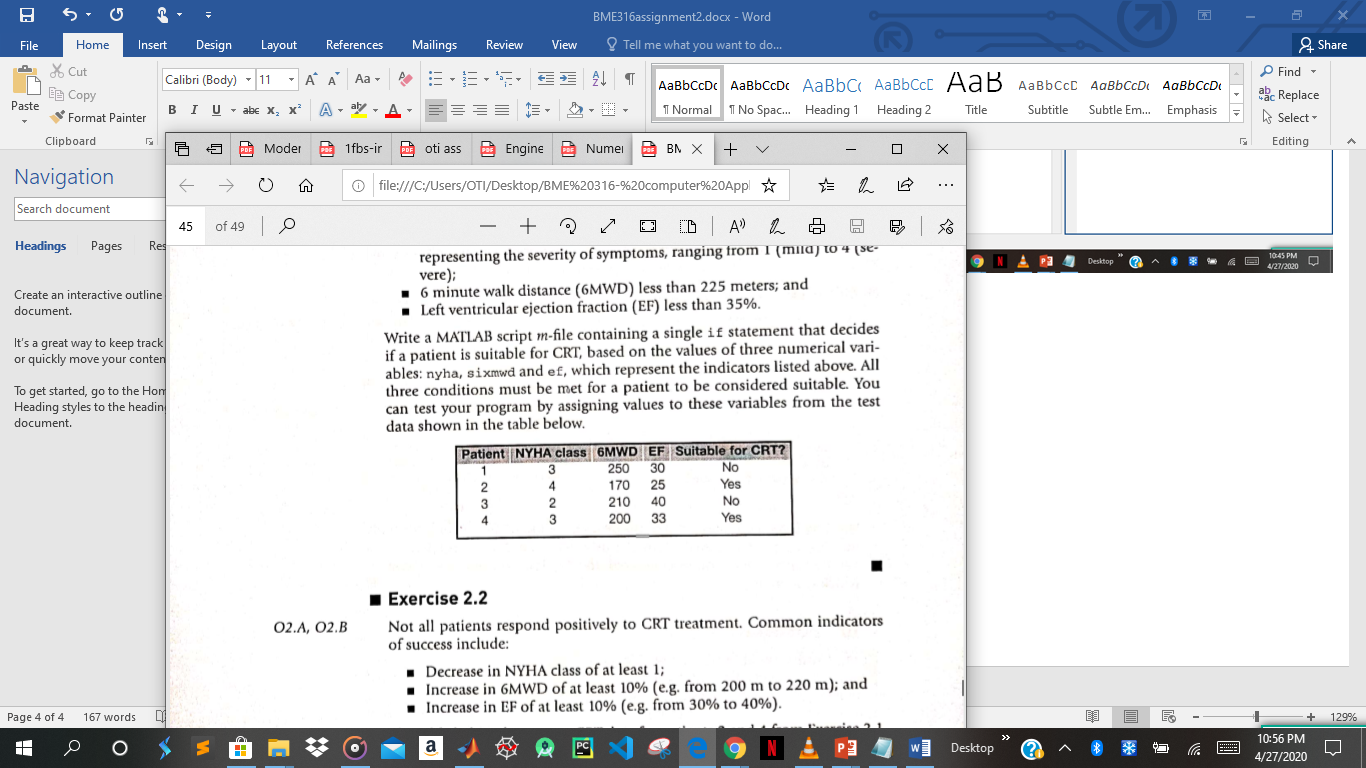
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DEPARTMENT: BIOMEDICAL ENGINEERING

MATRIC NO: 18/ENG08/026

COURSE: BME316

**ANSWERS**



**2.1**

1a)

%CRT qualification test

commandwindow

clc

clear all

syms nyha sixmd ef

a = CRTqualification(3, 250, 30)

function [a]=CRTqualification(nyha, sixmwd,ef)

if (nyha >=3 & nyha <= 4)& (sixmwd<225) & (ef < 35)

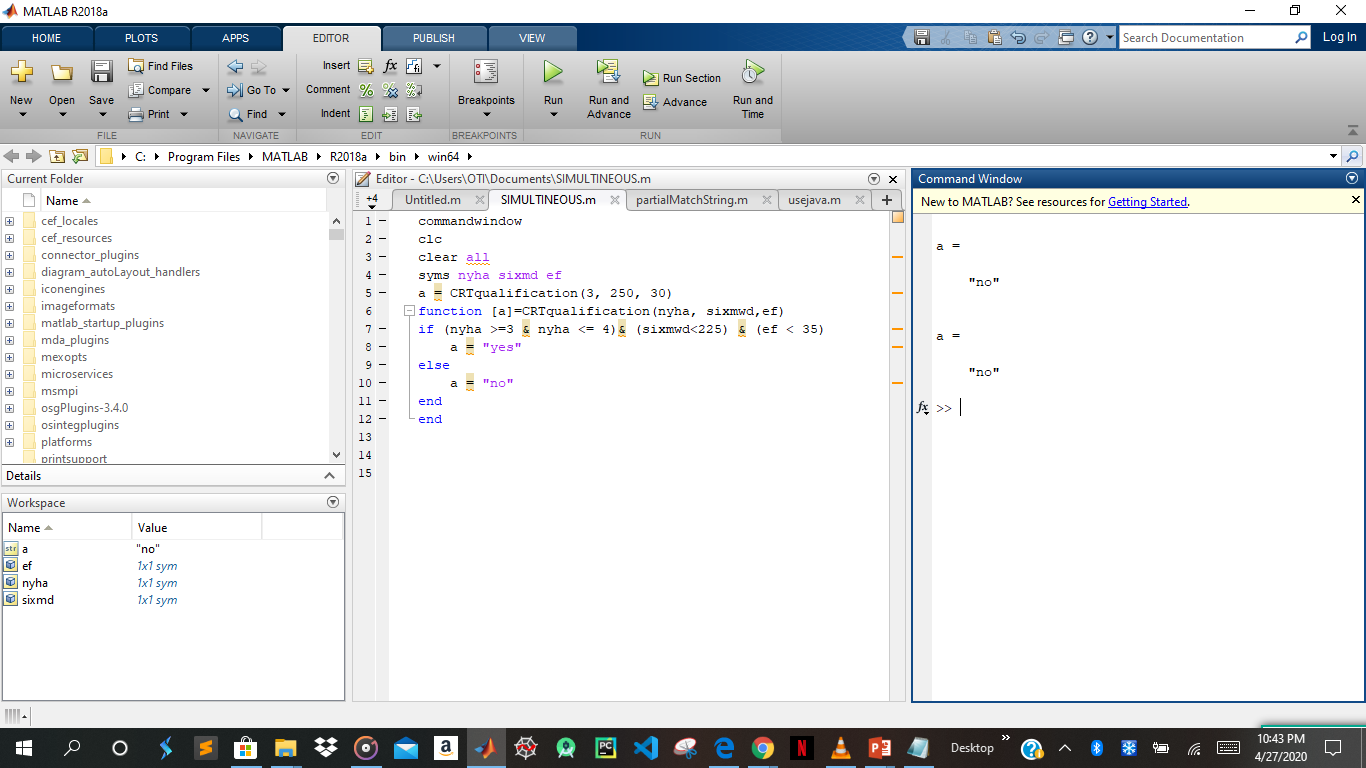
a = "yes"

else

a = "no"

end

end



b)

commandwindow

clc

clear all

syms nyha sixmd ef

a = CRTqualification(4, 170, 25)

function [a]=CRTqualification(nyha, sixmwd,ef)

if (nyha >=3 & nyha <= 4)& (sixmwd<225) & (ef < 35)

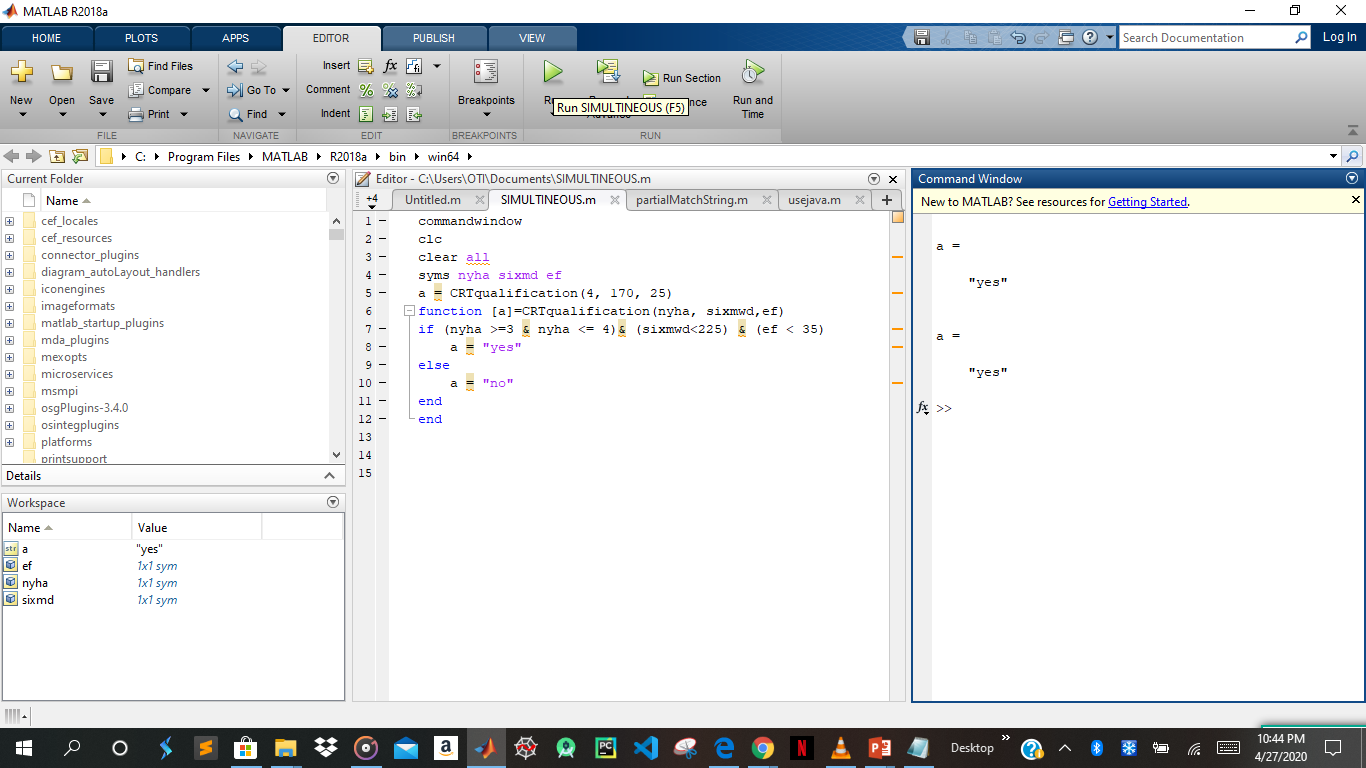
a = "yes"

else

a = "no"

end

end



c)

commandwindow

clc

clear all

syms nyha sixmd ef

a = CRTqualification(2, 210, 40)

function [a]=CRTqualification(nyha, sixmwd,ef)

if (nyha >=3 & nyha <= 4)& (sixmwd<225) & (ef < 35)

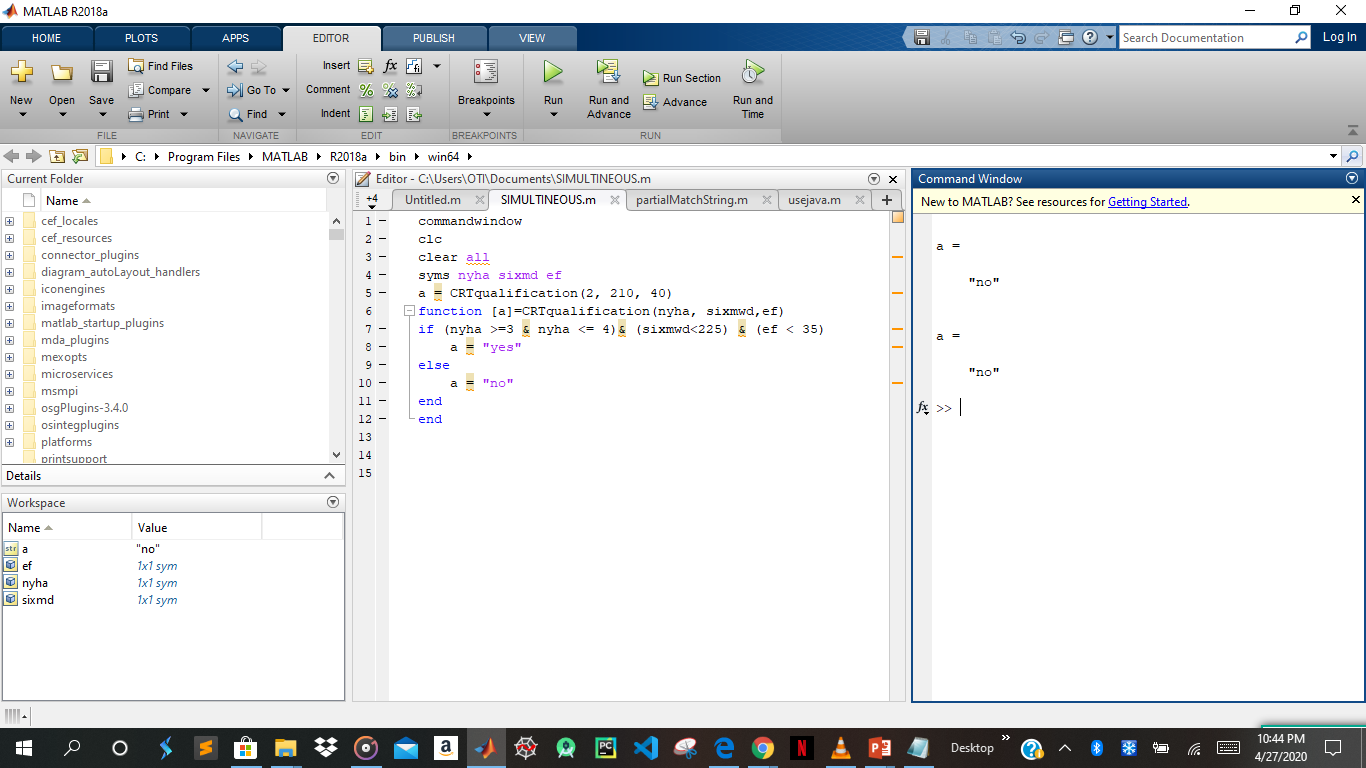
a = "yes"

else

a = "no"

end

end



4)

commandwindow

clc

clear all

syms nyha sixmd ef

a = CRTqualification(3, 200, 33)

function [a]=CRTqualification(nyha, sixmwd,ef)

if (nyha >=3 & nyha <= 4)& (sixmwd<225) & (ef < 35)

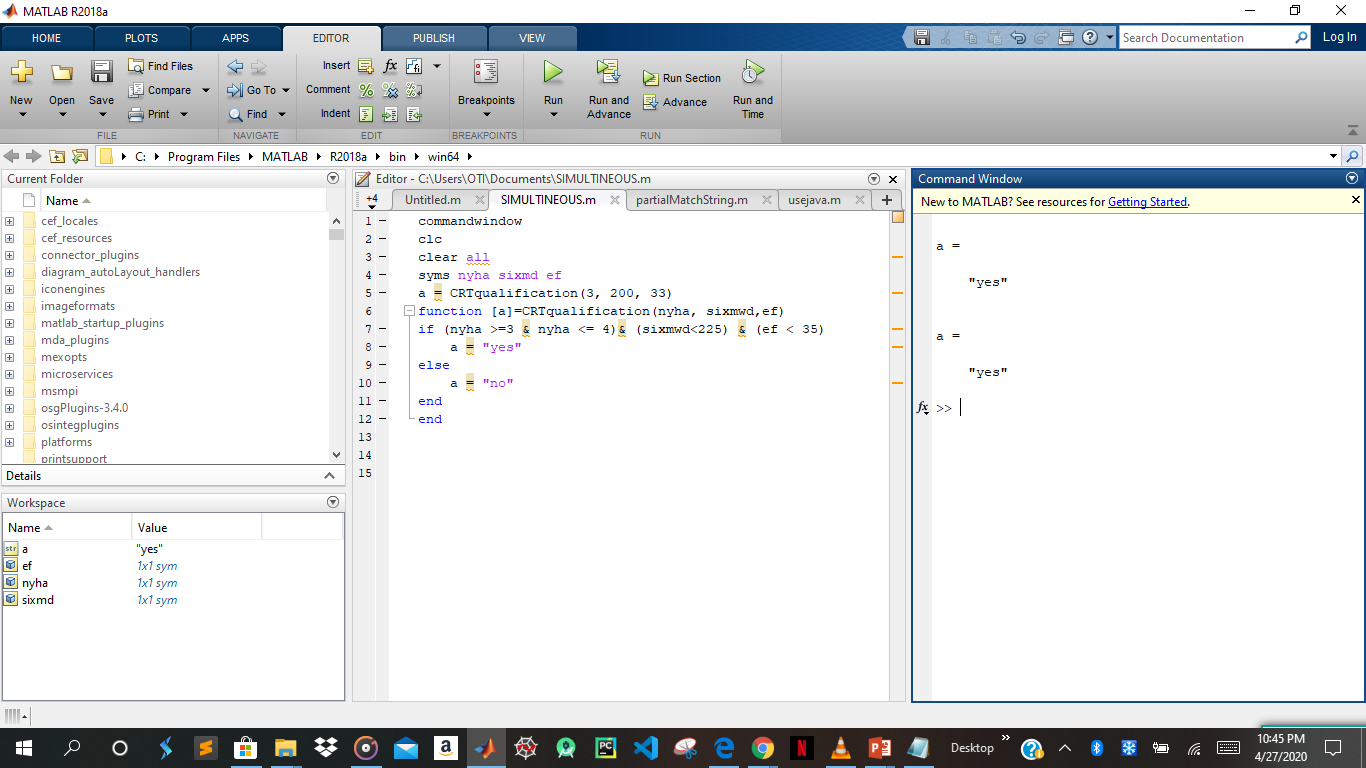
a = "yes"

else

a = "no"

end

end



**2.3**

commandwindow

clc

clear all

number = input('insert a number from(0-9): ');

character = input('insert character: ');

switch number

case {1,2,3,4,5,6,7,8,9,0}

disp('numbers')

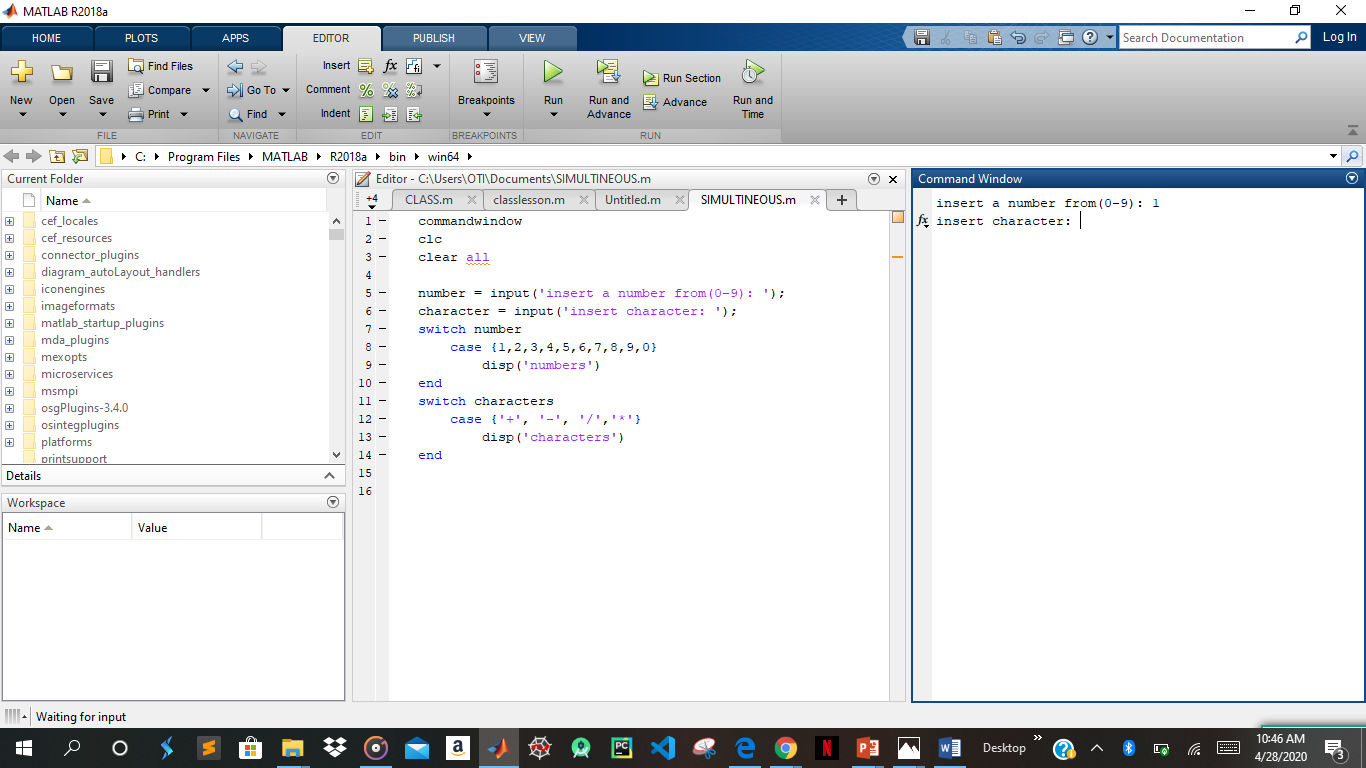
end

switch characters

case {'+', '-', '/','\*'}

disp('characters')

end

****

**2.4**

commandwindow

clear all

clc

systolic\_diastolic\_value = input('input values from 70-140: ');

switch systolic\_diastolic\_value

case {130,140,150}

disp('pre high')

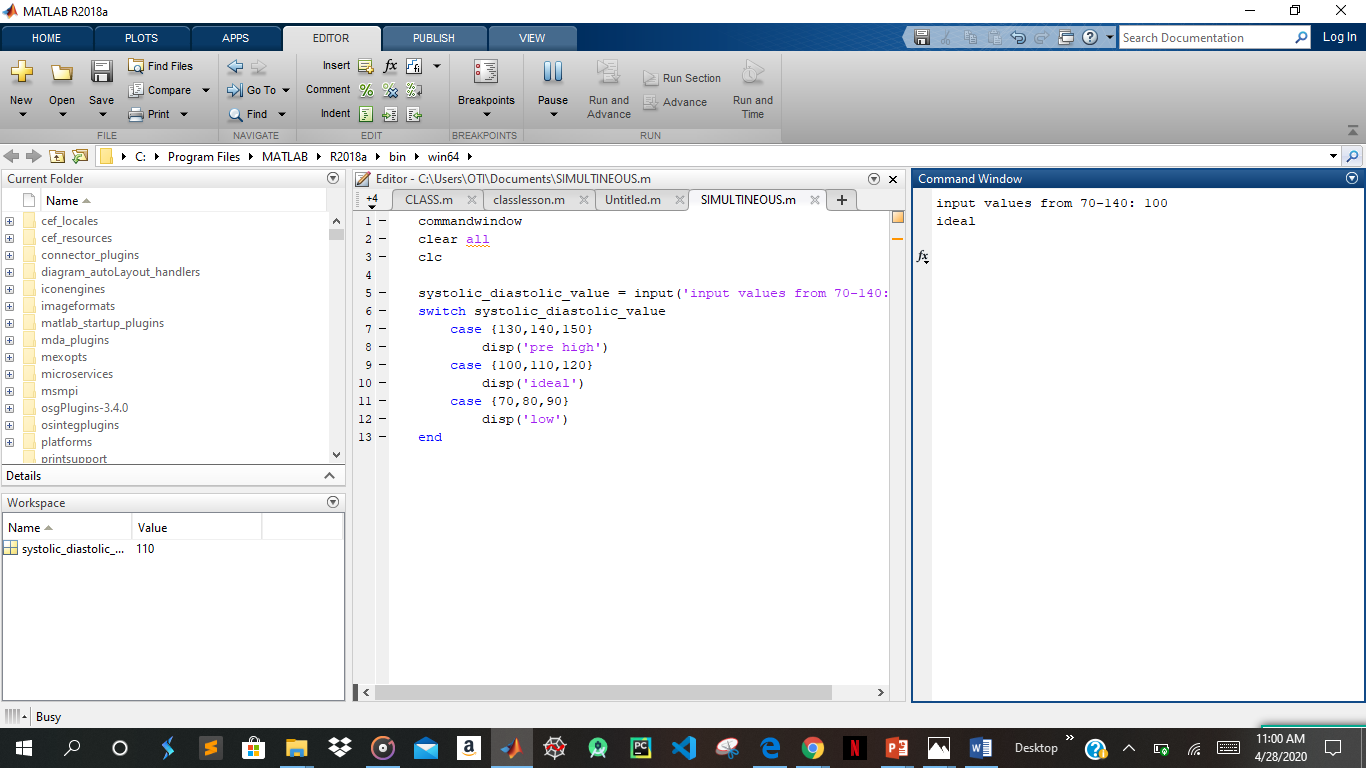
case {100,110,120}

disp('ideal')

case {70,80,90}

disp('low')

end

****

**2.5**

commandwindow

clc

clear all

grade = input('input a value from 0-100: ');

switch grade

case {70,80,90,100}

disp('EXCELLENT')

case 60

disp('GOOD')

case 50

disp('OK')

case 40

disp('BELOW AVERAGE')

otherwise

disp('FAIL')

end

