### BE-Discussion #4, 2020-09-25

```
+ please make more that you are in the correct discussion section
+ please unmute, show video, and fully participate!
```

#### Announcements

- ·always do the reading! Lecture videos are just supplemental · quiz #2 @ 4:40 pm EDT : 10 min to complete, 5 to upload -alternate quiz tomorrow morning for other time zones -0.5 pts deducted for every minute late
- · homework \*1 due Monday
- ·Exam #1 next Friday & 4:30 pm EDT (no EK100)
- Start studying now! · Questions? Check to see if already answered on the Discussion Forum!

# Review Quiz 1

#### Keview of Material

- · Selection Statements: if, if-else, mitch
- · is functions
- ·For loops + nested for loops

# How to accomplish the following.

for i=5:-1:1 for j = 1:i fprintf(' \n')

use a nested for loop!

Write a function using a loop that tests if a number is prime or not. Then print if the value is prime or not.

```
function prime Number (n)
% Don't forget your block comment!
tprime = 1;
for i = n - 1 : -1 : 2
     if mod (n, i) == 0
         tprime = 0;
     end
end
if tprime == 0
   disp ('This is not a prime number!')
else
   disp ('This is a prime number.')
end
end
```

```
Rewrite the following nested if-else as a switch statement
                             * assume that the functions f1(), f2(), f3(), f4() exist *
 if num <-2 11 num > 4
      +1 (num)
 عللا
                                     muitch num
      if num <= 2
                                         case {-2, -1 }
          if num >= 0
                                            43(num)
               f2(num)
                                         case {0, 1,2}
          else
                                             f2 (num)
               f3(num)
                                          Case $3,43
          end
                                             f4(num)
      else
                                          otherwise
          44 (num)
                                              fl (num)
      end
                                      end
 end
Wrik a script that will prompt the user for a character vector and
print whether empry or not.
instring = input ('Enter a character vector: ', 's');
if isempty (instring)

fprintf ('NH much of a character vector!\n')
     fprintf ('Thanks!')
```

```
1.3 functions:
```

<sup>·</sup> isempy()

<sup>·</sup> sutter ()

<sup>·</sup>iskeyword() ·isnumenc()

return logical true (1) or false (0)