#### Announcements

- · This upcoming Monday is combination of material from Ch. 14 as well as material that is available as a PDF online READ THE ONLINE VERSION! (it's updated)
- Ouiz #5 this afternoon 4 40 EDT... 15 min to complete, 5 min to upload, due by 5pm... alternate time zone, you know the deal!
- · HW#3 du Monday morning at 9 am EDT (10/26)
- · Other HW & Final project will be ported soon
- · Exam #2 is one week from today! STUDY NOW!!!

# Peview of Material

### CHAPTER 9: FILE 1/0

Write a script "LADodgers" that will read names from a file "LAroster. txt" in the form "Last, First" and print in form "First Last". For example, if the file stores the following:

» type Laroster. txt

Bellinger, Cody
Scager, Cory
Turner, Jurtin
Betts, Mookie

Executing script would produce the following:

» LADodgers

Cody Bellinger

Cony Seager

Junin Turner

Moorie Betts

## LADOdgers.M

```
fid = fopen ('Lkroner.+x+');

aline = fgitl(fid);

while aline ~= -1

[last, first] = strtok(aline); 
    Last = Last (1: end -1);
    first = strtnim(first);
    fprint ('%-2 %-2\n', fint, last)
    aline = fgitl(fid);

end

fe = felox(fid);
```

```
We have a file ungenroll dat that works rometring like this:
              201
   Aenospace
   Michanical 66
               107
   Euchical
Write a script that well read this info from the file and create a new
file that has just the first four characters from the department
names, followed by the enrollments. The new file newengenroll. dot
well be in this form:
  Acro 201
  much 66
  EUC 107
my script. m
 1. comment block
fid = foren ('engennou.dat');
if fid ==-1
   disp ('File open unsuccessful')
else
   new_fid = fopen ('newengenoul.dat', 'w');
    aline = factl (fid);
    while aline ~= -1
      [dept, num] = strtok(aline);
      num = str 2 num (num); 1. str 2 num () will take off trailing/leading blanks
      tprintf(new-fid, 1 1/2 /2 1/2), dept (1:4), num);
      aline = fget (fid);
    end
    doserement = felose ('all');
     if closerement == 0
         disp ('File close niccessful')
        disp ('File close not successful')
    end
end
```

#### CHAPTER ID : ADVANCED FUNCTIONS

function [varargent] = area Volume Circ (r, varargin)

'. communt block

if nargin == 1

varargent {1} == pi \* r ^ 2;

use

varargent {1} == pi \* r ^ 2;

varargent {2} == pi \* r ^ 2;

varargent {2} == varargent {1} \* varargent {1};

und

end

→ examples of calling:

[area vol] = area volume Circ (5,5)

area =

+8.5396

vol =

392.6991

yame idea as the rize() function (i.e.

[r, c]=rize (tomething);)

Anonymans Functions: why?

- · doesn't need a separate code file
- . One line of code (ata the nimple snift)

function = e(x) function

Velouity of round in air 49.02 TT ft/the where T is air temperature in Rankine. Write an anonymous function:

vel\_nound = @ (RT) 49.02 \* Jart (RT); ". anony function for recounty of nound an approximation for factorials can be done with stirling's Formula. Write an anonymous function.

$$n! \approx \sqrt{2\pi n} \left(\frac{n}{\epsilon}\right)^n$$

anonyfunc = e(n) sort(z\*pi\*n) \* (n/exp(1))^n;