Commands from "Introduction to MATLAB" Slides

```
10 + 20
                                                          figure:
sqrt(99)
                                                          axis([0 100 0 100]);
r = 2
                                                          [x y] = ginput(10);
C = 2*pi*r^2
                                                          plot(x,y,'dr');
                                                          p = polyfit(x,y,1)
X = 0;
                                                          hold on;
                                                          ezplot('0.8415*x + 6.6390', [0 100 0 100]);
                                                          hold off:
help
doc
                                                          help title
help plot
doc datatypes
                                                          figure
close all; clear all; clc;
                                                          title('hello_world')
                                                          xlabel('2\pir^2');
help avifile
                                                          ylabel('time_seconds', 'Interpreter', 'none');
ls
                                                          x = rand([100 1]);
                                                          y = sort(x);
figure
rand
                                                          plot(y);
ls
                                                          plot(sort(rand([100 1])));
LS
RAND
                                                          x = 5
                                                          v = [12378]
Figure
                                                          m = [12378; 52453]
rand(2);
linspace(0,2*pi)
                                                          x = [1 2; 3 4]
linspace(0,2*pi,10)
                                                          inv(x)
ls('c:\')
                                                          x'
ls c:\
                                                          x * inv(x)
clear all
                                                          x.* inv(x) % notice the period
                                                          m2 = [v; v; m]
x = rand([1,2])
                                                          m3 = [vvm]
f = figure
                                                          x = m2(1,:)
im = imread('ngc6543a.jpg')
                                                          y = m2(:,1)
h = image(im)
[x, y] = ginput(1)
                                                          X = 1:10
rand(1)
                                                          Y = 1:2:20
                                                          Z = 20:-1:1
sqrt(26)
                                                          x = rand(10)
x = linspace(0,2*pi)
                                                          x(1:2, 3:5)
x = linspace(0,2*pi);
                                                          x(1:2,:)
y = \sin(x); plot(x,y);
                                                          im = imread('ngc6543a.jpg');
x = linspace(1,100);
                                                          image(im);
y = rand([100 1]);
                                                          im2 = im(70:530, 90:520, :);
y = sort(y);
                                                          image(im2);
plot(x,y);
plot(x, y, '*r');
```

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```
x = input('Enter a number and then enter ');
                                                                  name = input('Type in an image file name with ' marks ');
if(x > 9)
        % This code will only execute if x > 9
                                                                    im = imread(name);
    disp('Number is greater than 9');
                                                                    image(im);
else
                                                                  catch
                                                                    disp('could not open file');
        % This code will only execute if x \sim 9
disp('Number is less than 9');
                                                                  disp('program did not exit');
figure:
hold on;
a = [0\ 100\ 0\ 100];
                                                                  function showfile(filename)
                                                                  %SHOWFILE - display the contents of a file as ASCII
axis(a);
for i = 1:10
                                                                  fid = fopen(filename, 'r');
        [x(i) y(i)] = ginput(1);
        plot(x,y,'*');
        axis(a);
                                                                  while 1
                                                                    tline = fgetl(fid);
end
                                                                    if ~ischar(tline)
x = input('Type a number and then enter ');
                                                                       break
while(x!=9)
                                                                    end
        x = input('Type a number and then enter ');
                                                                    disp(tline)
                                                                  end
x = input('Type in a number and press <enter> ');
                                                                  fclose(fid);
if(x == 1)
  disp('one');
                                                                  figure
                                                                  axis([0 100 0 100]);
else
  if(x == 2)
                                                                  [xy] = ginput(10);
    disp('two');
                                                                  plot(x,y, 'dr');
  else
                                                                  p = polyfit(x,y,1);
    if(x == 3)
                                                                  hold on;
     disp('three');
                                                                  equ str=[num2str(p(1))'*x + 'num2str(p(2))];
    else
                                                                  ezplot(equ_str, [0 100 0 100]);
      disp('more than three');
                                                                  hold off;
    end
  end
                                                                  for i = 1:20
end
                                                                    pause(rand(1)*2);
x = input('Type in a number and press <enter> ');
                                                                    x = input('press the (enter) key');
switch(x)
                                                                    t(i) = toc;
  case(1)
                                                                  end
    disp('one');
                                                                  hist(t);
  case(2)
    disp('two');
  case(3)
    disp('three');
  otherwise
    disp('more than three');
end
```