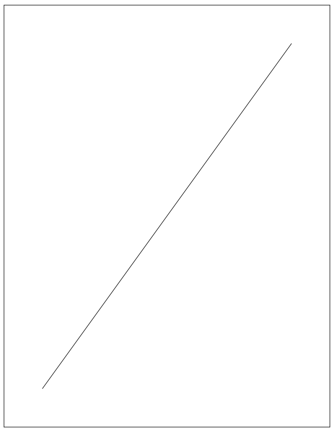
SIPB
Student Information Processing Board
Room W20-557 x3-7788

Programming in PostScript®
Basic PS Commands
Session 1

```
%!
% Program 1
% Draw a diagonal line

72 72 moveto    % Lower-left corner
540 720 lineto  % Upper-left corner
stroke          % Draw it
showpage        % Don't forget to print it!!!
```

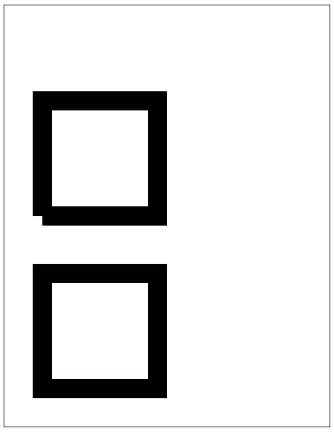


```
%!
% Program 2
% Draw two squares; demonstrate closepath

36 setlinewidth   % Really thick lines
72 396 moveto     % First corner
216 0 rlineto     % Bottom
0 216 rlineto     % Right
-216 0 rlineto    % Top
0 -216 rlineto    % Left
stroke            % Draw it

72 72 moveto      % First corner
216 0 rlineto     % Bottom
0 216 rlineto     % Right
-216 0 rlineto    % Top
closepath         % Close it correctly
stroke

showpage          % Many people forget this step!!!
```



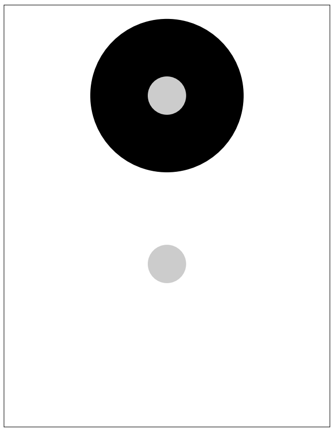
```
%!
% Program 3
% A classic optical illusion...

450 622 moveto          % Start point is on the "arc"
306 622 144 0 360 arc   % Center at (306,306), radius 144,
fill                    %   0-360 degrees, fill it with black.

.8 setgray              % Light Gray (PS does not know "grey")
342 622 moveto          % Start point of the "arc"
306 622 36 0 360 arc    % Circle of radius 36
fill                    % Fill it (with light gray)

342 306 moveto          % Do another one, higher up on the page
306 306 36 0 360 arc    % Same command, new center
fill

showpage                % Always remember this!
```



For your amusement and edification,
you may want to try your hand at the following problems:

1. Draw a triangle with angles 80˚, 70˚, and 30˚
(Hint: Use PostScript's trig functions.)
2. Draw a house
3. Draw a stick figure