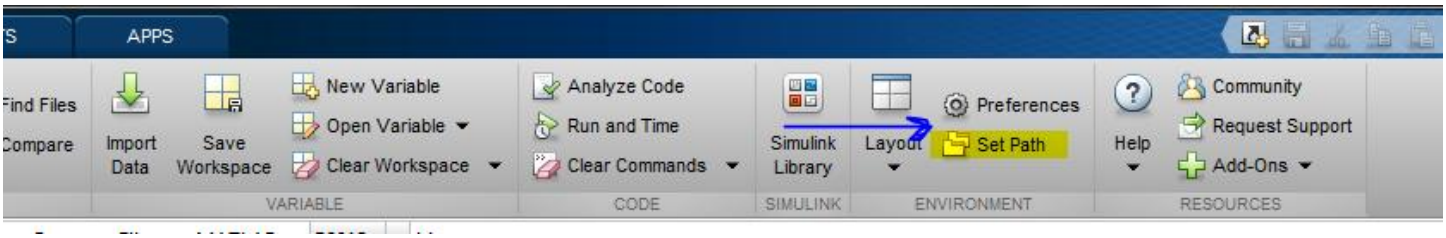
>Running the code:

Put all the extracted files in a single folder

Add that folder to the matlab path



Run by calling math_code

>do some debugging (with weird shapes and composite transformations)

>Adding a transformation to the code

```
21
22 -  while(1)                % transformation choices
23 -  choice=menu('select a transformation','1-Done','2-Scaling','3-translation','4-Rotation around origin','5-Ref
24 -      if choice==1        % Done condition
25 -          break
26 -      elseif choice==2    % all transformations are performed by the corresponding functions
27 -          scale_poly();
28 -      elseif choice==3
29 -          translate_poly();
30 -      elseif choice==4
```

-Insert a case in the menu function

-Insert an elseif case with a function call to the function doing the transformation

-Write the function of the transformation in a separate m-file in the same folder with the same name as the function

-you can call the other functions from any new function

-define `global polygon_;` at the start of each new function