```
1 function [] = testImages()
 2
 3
       aux = 1;
 4
       accuracy overall stack = [];
       targetToText = ["circle" "kite" "parallelogram"
 5
           "square" "trapezoid" "triangle"];
 6
 7
       imgres = [25 25];
       inputs = [];
 8
       k = 0;
 9
10
       target = zeros(6, 60);
11
12
13
        for i = 1:length(targetToText)
14
           Directory = '.\NN Tema1 images\test\' + targetToText(i);
15
           % Read images from Images folder
16
           images = dir(fullfile(Directory, '*.png'));
17
18
          for k = (k+1):length(images)*i
19
               target(i, k) = 1;
20
           end
21
22
          for j = 1:length(images)
23
               image = imread(fullfile(Directory, images(j).name)); % Read image
24
               image = imresize(image, imgres);
25
               binarizedImg = imbinarize(image);
26
27
               imageVector1 = (binarizedImg(:));
28
29
               inputs( : , aux) = imageVector1;
30
               aux = aux + 1;
31
           end
32
33
34
       end
35
36
       load('Treinos\Train10.mat'); %carrega a rede neuronal
37
       y = sim(net, inputs); % Simula
38
39
      r=0;
40
           for i=1:size(y,2)
                                         % Para cada classificacao
41
               [a b] = max(y(:,i));
                                      %b guarda a linha onde encontrou valor mais alto
42
               [c d] = max(target(:,i)); %d guarda a linha onde encontrou valor mais alt
                                         % se estao na mesma linha, a classificacao foi c
43
               if b == d
44
                   r = r+1;
45
               end
46
           end
47
48
           accuracy = r/size(y,2)*100;
49
           fprintf('Precisao total %f\n', accuracy);
50
           accuracy overall stack = [accuracy_overall_stack accuracy];
51
52 end
```