*Student: Melis Kilic*

**Shape recognition**

apple\_image = imread('E:\Üniversite\3. SINIF\Digital Image\9\Models\apple.gif');

bell\_image = imread('E:\Üniversite\3. SINIF\Digital Image\9\Models\bell.gif');

hammer\_image = imread('E:\Üniversite\3. SINIF\Digital Image\9\Models\hammer.gif');

Rc\_apple = circularity(apple\_image);

Rc\_bell = circularity(bell\_image);

Rc\_hammer = circularity(hammer\_image);

w = [Rc\_apple, Rc\_bell, Rc\_hammer];

figure;

for i = 1:18

A = imread(['E:\Üniversite\3. SINIF\Digital Image\9\Queries\Image', num2str(i), '.gif']);

circ\_coefficient = circularity(A);

[M, I] = min(abs(w - circ\_coefficient));

subplot(3, 6, i);

imshow(A);

title(['Class ', num2str(I)]);

end

**Result of the code:**

