Algorithm: Classification of blood group referred from paper “[Blood Group Detection using Image Processing Techniques](http://dspace.bracu.ac.bd/xmlui/bitstream/handle/10361/9503/13101279%2C13101273%2C13101262%2C13301021%2C13101175_CSE.pdf?sequence=1&isAllowed=y)”

Input: Image I

Output: Classification of Blood Group using color Image I

gray = rgb2gray (I)

B=im2bw (I)

I = I’; Compliments of the Image

[nrows ncols dim] = size (invImg); slices columns wise split equally img1,img2,img3

D= edge (img1,'canny')

imshow(D);title('Group A')

E= edge (img2,'canny')

imshow(D);title('Group B')

F= edge (img3,'canny')

imshow(D);title('Rh Factor D')

Counting of edges using bwlabel() at D,E,F

Resultant edges are num, num1, num2

if num > unit then flag = 1 else flag =0

if num 1> unit then flag = 1 else flag =0

if num 2> unit then flag = 1 else flag =0

for i = 1: length(array) ; blood strings are taken

if (strcmp(temp,str{i}))

rst = str{i-1};

(' BLOOD GROUP is %s',str{i-1});

end

end