unction result\_trial(fileName)

sheetNum = 1;

[~,~,raw]=xlsread(fileName);

[row,~]=size(raw);

col\_header={'Score Right 1','Score Left 1','Score Right 2','Score Left 2'};

xlswrite(fileName,col\_header,sheetNum,'H1');

[~,yy] = xlsread(fileName,sheetNum);

scorer1 = ones(1,row);

scorer2 = ones(1,row);

scorel1 = ones(1,row);

scorel2 = ones(1,row);

for i=2:row

m = yy{i,3};

q = yy{i,4};

f = yy{i,5};

j = yy{i,6};

s = yy{i,7};

y1 = strfind(lower(string(m)),lower(string(q)));

y2 = strfind(lower(string(m)),lower(string(f)));

y3 = strfind(lower(string(m)),lower(string(j)));

y4 = strfind(lower(string(m)),lower(string(s)));

if isempty(y1)~=0

scorer1(i) = 0;

end

if isempty(y2) ~=0

scorel1(i) = 0;

end

if isempty(y3)~=0

scorer2(i) = 0;

end

if isempty(y4)~=0

scorel2(i) = 0;

end

xlswrite(fileName,scorer1(i),sheetNum,['H' num2str(i)]);

xlswrite(fileName,scorel1(i),sheetNum,['I' num2str(i)]);

xlswrite(fileName,scorer2(i),sheetNum,['J' num2str(i)]);

xlswrite(fileName,scorel2(i),sheetNum,['K' num2str(i)]);

end

RE\_1\_Correct = sum(scorer1)/length(scorer1)\*100;

LE\_1\_Correct =sum(scorel1)/length(scorel1)\*100;

RE\_2\_Correct =sum(scorer2)/length(scorer2)\*100;

LE\_2\_Correct =sum(scorel2)/length(scorel2)\*100;

xlswrite(fileName,RE\_1\_Correct,sheetNum,['H' num2str(i+2)]);

xlswrite(fileName,LE\_1\_Correct,sheetNum,['I' num2str(i+2)]);

xlswrite(fileName,RE\_2\_Correct,sheetNum,['J' num2str(i+2)]);

xlswrite(fileName,LE\_2\_Correct,sheetNum,['K' num2str(i+2)]);

X = categorical({'RE 1 Correct','LE 1 Correct','RE 2 Correct','LE 2 Correct'});

Y = [RE\_1\_Correct,LE\_1\_Correct,RE\_2\_Correct,LE\_2\_Correct];

bar(X,Y)