```
function report(solution,f)
figure; % Open an empty figure window
hold on; % Hold on to the current figure
% Draw a 2D contour plot for the objective function
% You can edit drawing parameters within the file: drawContour.m
drawContour(f);
% Plot the search path
x = solution.x;
iter = size(x, 2);
plot(x(1,1),x(2,1),'.y','markerSize',20);
str1 = [num2str(x(1,1)),',',num2str(x(2,1))];
text(x(1,1),x(2,1),str1);
for i = 2:iter
    % Draw lines. Type "help line" to see more drawing options.
   line([x(1,i-1),x(1,i)],[x(2,i-1),x(2,i)],'Color','y');
   plot(x(1,i),x(2,i),'.y','markerSize',20);
end
title('Contour plot');
xlabel('x2');
ylabel('x3');
str2 = [num2str(x(1,i)),',',num2str(x(2,i))];
text (x(1,i),x(2,i),str2);
% Plot the convergence
F = zeros(iter, 1);
for i = 1:iter
   F(i) = feval(f,x(:,i));
end
figure;
plot(1:iter, log(F-F(end)+eps),'k','lineWidth',3);
title('Convergence Plot');
xlabel('Iteration');
ylabel('Log Convergence');
```