

2AIT608 - Solutions to Tutorial 1 Exercises

Exercise 2

```
% cell array of strings holding all data
data = {'sunny', 'warm', 'normal', 'strong', 'warm', 'same', 'yes';
        'sunny', 'warm', 'high', 'strong', 'warm', 'same', 'yes';
        'rainy', 'cold', 'high', 'strong', 'warm', 'change', 'no';
        'sunny', 'warm', 'high', 'strong', 'cool', 'change', 'yes'};

% initial hypothesis (iteration 1) - h is also a cell array
h = data(1, 1:size(data, 2)-1)

for i=2:4
    % operate on positive examples only
    if strcmp(data{i, size(data, 2)}, 'yes')
        % find the positions which differ between h and current row
        for col=1:size(data,2)-1
            if ~strcmp(h{col}, data{i, col})
                h{col} = '?'; % replace elements which differ with a '?'
            end
        end
        % display current hypothesis
        disp(h);
    end
end
```