```
%Vitor Cavalcante

%exercise 1
% function Lecture13_ifElse(length)
% lengthMax = 10 + (10.*(0.02));
% lengthMin = 10 - (10.*(0.02));
%
% if length > lengthMin && length < lengthMax
%          fprintf('The length is within tolerance');
% else
%     fprintf('The length is not within tolerance');
% end
% end

%exercise 2
% function Lecture13_ifElse(length)
%
% lengthC = length.*2.54;
%
% lengthMax = 10 + (10.*(0.02));
% lengthMin = 10 - (10.*(0.02));
%
% if lengthC > lengthMin && lengthC < lengthMax
%          fprintf('The length is within tolerance');
% else
%     fprintf('The length is not within tolerance');
% end
% end

%exercise 3
% function Lecture13_ifElse(temp)
%
% if temp > 25;
%          fprintf('FAN ON');
% else
%     fprintf('FAN OFF');
% end
% end

%exercise 4
function Lecture13_ifElse(temp)

if tempC > 77;
         fprintf('FAN ON');
else
    fprintf('FAN OFF');
end
end
```

```
Undefined function or variable 'tempC'.

Error in Lecture13_ifElse (line 43)
```

```
if tempC > 77;
```

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