

```

fis = readfis('Doernenburg');
out = evalfis([R1 R2 R3 R4],fis);
end

fis = readfis('Roger');
out1 = evalfis([R1 R2 R5],fis);

disp('DOERNENBURG')
fprintf(' TR    R1    R2    R3    R4    Condition    HVPI    LVPI
\n')
fprintf(' ===    ===    ===    ===    ===    =====    =====
\n')
fprintf('  %d    %.2f  %.2f  %.2f  %.2f    %.2f          %.2f  %.2f
\n',1, R1, R2, R3, R4, out,HVPI,LVPI);

disp('=====')

disp('Fault Type')
disp('=====')
disp('0,1: No FaultORNaN')
disp('2: Partial Discharg ')
disp('3: Arcing ')
disp('4: Thermal ')

disp('=====')
disp('ROGER')
fprintf(' TR    R1    R2    R5    Condition    HVPI    LVPI    \n')
fprintf(' ===    ===    ===    ===    =====    =====    =====
\n')
fprintf('  %d    %.2f  %.2f  %.2f    %.2f          %.2f  %.2f    \n',1,
R1,R2,R5,out1,HVPI,LVPI);

disp('=====')

disp('Fault Type')
disp('=====')
disp('1: NoFaultORNaN')
disp('2: Partial discharge')
disp('3: Arcing ')
disp('4: Low temp. thermal ')
disp('5: Thermal>700_C ')
disp('6: Thermal<700_C ')

% =====
if HVPI >2;
Test = 'Good';
elseif HVPI > 1.25 & HVPI<=2;
Test = 'Poor';
elseif HVPI>1.1 & HVPI<=1.25;
Test = 'Questionable';
elseif HVPI > 1 & HVPI<=1.1;
Test = 'Bab';
else HVPI <= 1;
Test = 'Danger';
end

% =====

```