

```

out(k,1) = evalfis([R1(k,1) R2(k,1) R3(k,1) R4(k,1)],fis);
end
end
disp('Program for DGA analysis')
disp('=====')
disp('Doernenburg')
disp('=====')
RR = [R1 R2 R3 R4 out];
fprintf(' TR      R1      R2      R3      R4      Condition      \n');
fprintf('====  ===  ===  ===  ===  =====  \n');
for k=1:N;
fprintf('%d    %.2f    %.2f    %.2f    %.2f    %.2f  \n', k, R1(k,1),
R2(k,1), R3(k,1), R4(k,1), out(k,1));
end
disp('Fault Type')
disp('=====')
disp('0,1: No FaultORNaN')
disp('2: Partial Discharg ')
disp('3: Arcing ')
disp('4: Thermal ')
disp('_____')
for k=1:N;
fis = readfis('Roger');
out1(k,1) = evalfis([R1(k,1) R2(k,1) R5(k,1)],fis);
end
disp('ROGER')
disp('=====')
RR = [R1 R2 R5 out1];
fprintf(' TR      R1      R2      R5      Condition      \n');
fprintf('====  ===  ===  ===  =====  \n');
for k=1:N;
fprintf('%d    %.2f    %.2f    %.2f    %.2f  \n', k, R1(k,1), R2(k,1),
R5(k,1), out1(k,1));
end
disp('_____')
disp('Fault Type')
disp('1: No Fault ORNaN')
disp('2: Partial discharge')
disp('3: Arcing ')
disp('4: Low temp. thermal ')
disp('5: Thermal>700 oC ')
disp('6: Thermal<700oC ')
disp('_____')

```