

```

clear
clc
xold=input('nilai awal = ');
tol=input('toleransi = ');
del=input('interval differensiasi = ');
disp(' ');
disp('      x              f(x)      ');
disp('-----');
F=f1(xold);
fprintf(' %2.6f      %5.5f      \n',xold,F);
df1=(f1(xold+del)-f1(xold))/del;
xnew=xold-f1(xold)/df1;
while abs(xnew-xold)>= tol
    xold=xnew;
    df1=(f1(xold+del)-f1(xold))/del;
    xnew=xold-f1(xold)/df1;
    F=f1(xnew);
    fprintf(' %2.6f      %5.5f      \n',xnew,F)
end
disp('-----');

```