

```

0001  clc
0002  clear
0001  function root=newtonraphson(f, df)
0002      tol=1.e-4
0003      maxit=5;
0004      n=1;
0005      x(n)=3;
0006      while(1)
0007
0008          x(n+1)=x(n) - (f(x(n)) / df(x(n)));
0009          if n==maxit then
0010              break
0011          end
0012          n=n+1;
0013      end
0014      root=x(n+1);
0015  endfunction
0001  function f=f1(x)
0002      f=x^3-2*x^2-2*x-1;
0003  endfunction
0001  function df=df1(x)
0002      df=3*x^2-4*x-2;
0003  endfunction
0023  root=newtonraphson(f1,df1);
0024  root=round(root*10^5)/10^5;
0025  disp(root,"root of the equation=")

```