

1 Come inserire codice

```
1 disp('Loop_di_Newton_per_1''equazione_di_Poisson')
errN = 1;
iterN = 0;
while errN > tollN % *(1 - exp(-0.05*iterN))
    iterN = iterN + 1;
6    rho = q*(nintr*(exp((phip(:,k)-psi(:,k))/Vth) - exp((psi
    (:,k)-phin(:,k))/Vth)) + doping);
    rho(setdiff(nOX,nI)) = 0;
    F = A_epstot*psi(:,k) - Identity*rho;
    coeff = q*nintr/Vth*(exp((psi(:,k)-phin(:,k))/Vth) + exp
    ((phip(:,k)-psi(:,k))/Vth));
    coeff(setdiff(nOX,nI)) = 0;
11    A = A_epstot + spdiags(Identity*coeff,0,nv,nv);
    delta_psi = -A(nodes_inter,nodes_inter)\F(nodes_inter);
    tk = 1; % - exp(-0.05*iterN); % damping
    psi(nodes_inter,k) = psi(nodes_inter,k) + tk*delta_psi;
    errN = norm(delta_psi,inf);
16 end
```