```
%Salvare ogni testo separatamente

function [x,x_true]=calcolo_exp(t,nmax,tol)
format long e
x_true=exp(t);
x=1;
%err=zeros(nmax,1);
factk=1;
for k=1:nmax,
    factk=factk*k;
   %x = x + t^k/factorial(k);
   x = x + t^k/factk;
   err(k) = abs(x-x_true)/abs(x_true);
   disp([k,x,x_true, err(k)])
   if (err(k)<tol), break,end
end
semilogy(err,'ro')
end



%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

function eps_finale=mia_eps

a=1; b=1;
k=1;
while (a+b > a)
   b=b/2;
   disp([k,b])
   k=k+1;
end

eps_finale=2*b;

end


%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

function S=stirling(n_max)

factn=1;
e=exp(1);
for n=1:n_max
    factn=factn*n;
    S=sqrt(2*pi*n)*(n/e)^n;
    err_abs(n)=abs(factn-S);
    err_rel(n)=err_abs(n)/factn;
    disp([n,factn,S,err_abs(n),err_rel(n)])
end
%semilogy(err_abs,'r')
%hold on
semilogy(err_rel,'b')
%hold off
```