function [**y10**]=(**eularmodx0**, **y0**, **h**, **n**, **f**)

x1=x0+**h**;

**y10**=**y0**+**h**\*f(x0,**y0**);

while(**n**>1)

x0=x0+**h**;

x1=**y10**;

**y10**=**y0**+(**h**/2)\*(f(x0,**y0**)+f(x1,**y10**));

if(abs(**y10**-x1)<0.0001)

**y10**

abort;

end;

**n**=**n**-1;

**y10**

end;

endfunction

output:

deff('[y]=f(a,b)','y=log(a+b)');

-->eularmod(1,2,0.2,10,f)

ans =

2.3096946