euler.m 25.05.12 15:10

```
function [s,x, r]=euler(s,x,r, lambda, gamma);
%this file is here to calculate the euler iteration
%Calculations for the variable susceptible
ds= -lambda.*s;
%Calculations for the variable infectious
dx= -gamma.*x + lambda.*s;
%Calculations for the variable recovered
dr= gamma.*x;
%Calculating f(t)=f(t-1)+df
s=s+ds;
x=x+dx;
r=r+dr;
end
```