Random walk formulation

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INITIALIZE

```
clear
close all
clc
```

DASHBOARD

```
nsteps = 10; %% Number of steps

x = zeros(nsteps,1);
y = zeros(nsteps,1);
x(1) = 0;
y(1) = 0;

for iter = 1:nsteps

dx =randn(); %% random numbers in the x-direction
dy =rand(); %% random numbers in the y-direction

x(iter+1) = dx; %% xvalues
y(iter+1) = dy; %% yvalues

end
```

Plotting of figures

