```matlab
% DDA algorithm-Arbitrary line
clc;close all;clear all
x1=input('Enter x-start value: ');
y1=input('Enter y-start value: ');
x2=input('Enter x-end value : ');
y2=input('Enter y-end value : ');
i=0;
dx=(x2-x1);
dy=(y2-y1);
if (abs(dx)>=abs(dy))
    length=abs(dx);
else
    length=abs(dy);
end
axis([0 100 0 100]);
hold on


xinc=dx/length;
yinc=dy/length;
x=x1;
y=y1;


while (i<=length)


    x=x+xinc;
    y=y+yinc;
    plot(x,y,'gs')
    i=i+1;


end
```