```
#include<graphics.h>
 2
      #include<stdio.h>
      #include<iostream>
      #include<conio.h>
 5
6
7
8
9
      int main()
           FILE *fp = fopen("Line_points.txt", "a");
initwindow(800,800,"Line Generating Program");
10
           int x0 = 112, y0 = 14, x1 = 456, y1 = 789;
11
12
13
           int dx, dy, p, x, y;
14
15
           dx=x1-x0;
           dy=y1-y0;
16
17
18
           x=x0;
19
           y=y0;
20
21
           p=2*dy-dx;
22
23
           while(x<x1)</pre>
24
           {
25
26
                if(p>=0)
27
                     putpixel(x,y,GREEN);
fprintf(fp, "%d %d\n",x,y);
28
29
                     y=y+1;
30
                     p=p+2*dy-2*dx;
31
                }
32
                else
33
                {
                     putpixel(x,y,GREEN);
fprintf(fp, "%d %d\n",x,y);
34
35
36
                     p=p+2*dy;
37
                }
38
                x=x+1;
39
40
           getch();
41
           return 0;
42
      }
```

1 of 1 8/23/17, 6:34 PM