Code:

```
1 | #include <graphics.h>
   #include <conio.h>
3
   #include <math.h>
  void koch(int x1, int y1, int x2, int y2, int it)
5
6
7
       float angle = 60 * M_PI / 180;
8
       int x3 = (2 * x1 + x2) / 3;
       int y3 = (2 * y1 + y2) / 3;
9
10
       int x4 = (x1 + 2 * x2) / 3;
11
12
       int y4 = (y1 + 2 * y2) / 3;
13
14
       int x = x3 + (x4 - x3) * cos(angle) + (y4 - y3) * sin(angle);
15
       int y = y3 - (x4 - x3) * sin(angle) + (y4 - y3) * cos(angle);
16
       if (it > 0)
17
18
       {
19
           koch(x1, y1, x3, y3, it - 1);
           koch(x3, y3, x, y, it - 1);
20
21
           koch(x, y, x4, y4, it - 1);
22
           koch(x4, y4, x2, y2, it - 1);
       }
23
24
       else
25
       {
           setcolor(WHITE);
26
27
           delay(10);
           line(x1, y1, x3, y3);
28
29
           line(x3, y3, x, y);
            line(x, y, x4, y4);
31
           line(x4, y4, x2, y2);
32
33
34
35 | int main(void)
36 | {
37
       int gd = DETECT, gm;
38
       int x1, y1, x2, y2, it;
       initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
39
       printf("Enter line coordinates :\n");
40
       scanf("%d%d%d%d", &x1, &y1, &x2, &y2);
41
       printf("No. of itterations : ");
42
       scanf("%d", &it);
43
       koch(x1, y1, x2, y2, it);
44
       getch();
45
       return 0;
46
47 | }
```