```
#include <iostream>
#include <math.h>
#include < graphics.h>
using namespace std;
class kochCurve
public:
void koch(int it,int x1,int y1,int x5,int y5)
int x2,y2,x3,y3,x4,y4;
int dx,dy;
if (it==0)
line(x1,y1,x5,y5);
else
delay(10);
dx=(x5-x1)/3;
dy=(y5-y1)/3;
x2=x1+dx;
y2=y1+dy;
x3=(int)(0.5*(x1+x5)+sqrt(3)*(y1-y5)/6);
y3=(int)(0.5*(y1+y5)+sqrt(3)*(x5-x1)/6);
x4=2*dx+x1;
y4=2*dy+y1;
koch(it-1,x1,y1,x2,y2);
koch(it-1,x2,y2,x3,y3);
koch(it-1,x3,y3,x4,y4);
koch(it-1,x4,y4,x5,y5);
};
int main()
kochCurve k;
int it;
cout<<"Enter Number Of Iterations : "<<endl;</pre>
cin>>it;
int gd=DETECT,gm;
initgraph(&gd,&gm,NULL);
k.koch(it,150,20,20,280);
k.koch(it,280,280,150,20);
k.koch(it,20,280,280,280);
getch();
closegraph();
return 0;
```

## Output:

