```
#include<stdio.h>
#include<stdlib.h>
#include<conio.h>
#include<math.h>
#include<graphics.h>


int a;

void drawfern(int x,int y,int l,int arg,int n)
{
int x1,y1,i;
int l1,xpt,ypt;

if(n>0&&!kbhit())
  {
  x1=(int)(x-l*sin(arg*3.14/180));
  y1=(int)(y-l*cos(arg*3.14/180));
  line(x,y,x1,y1);
  l1=(int)(l/5);
  for(i=1;i<6;i++)
    {
    xpt=(int)(x-i*l1*sin(arg*3.14/180));
    ypt=(int)(y-i*l1*cos(arg*3.14/180));
    drawfern(xpt,ypt,(int)(l/(i+1)),arg+a,n-1);
    drawfern(xpt,ypt,(int)(l/(i+1)),arg-a,n-1);
```

```
    }
  }
}
```

```
void main()
{
int gd=DETECT,gm,x,y,l;
initgraph(&gd,&gm,"C:\\TURBOC3\\BGI\\");
x=getmaxx()/2;
y=getmaxy()/2;
l=150;
a=45;
setcolor(YELLOW);
drawfern(x,y,l,0,5);
getch();
}
```