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Title: - Write C++ program to generate Hilbert curve using concept of fractals.
Roll No:-
Class:-SE Computer
Sub:-OOPL & CGL
Date:-
***********************************
Program-
#include<iostream>
#include<graphics.h>
#include<math.h>
#include<cstdlib>
using namespace std;
void move(int j, int h, int &x,int &y)
      if(j==1)
             y-=h;
       else
      if(j==2)
             x+=h;
      else if(j==3)
             y+=h;
      else if(j==4)
             x=h;
      lineto(x,y);
void hilbert(int r,int d,int l ,int u,int i,int h,int &x,int &y)
      if(i>0)
       {
             hilbert(d,r,u,l,i,h,x,y);
             move(r,h,x,y);
             hilbert(r,d,l,u,i,h,x,y);
             move(d,h,x,y);
             hilbert(r,d,l,u,i,h,x,y);
             move(l,h,x,y);
             hilbert(u,l,d,r,i,h,x,y);
int main()
```

/*

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int n,x1,y1;
int x0=50,y0=150,x,y,h=10,r=2,d=3,l=4,u=1;
cout<<"Give the value of n=";
cin>>n;
x=x0;
y=y0;
int driver=DETECT,mode=0;
initgraph(&driver,&mode,NULL);
moveto(x,y);
hilbert(r,d,l,u,n,h,x,y);
delay(10000);
closegraph();
return 0;
}
```

/*Output:-

