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Sample Source Code :-
#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 I ,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()
  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;
}
```

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## Sample Output :-



