CODE:

#include<conio.h>

#include<stdio.h>

#include<graphics.h>

void main(){

int gd=DETECT,gm;

int x[4],y[4],px,py,i;

double t;

initgraph(&gd,&gm,"C:\\TC\\BGI");

printf("Enter four control points of bezier curve: ");

for(i=0;i<4;i++)

scanf("%d%d",&x[i],&y[i]);

for(t=0.0;t<=1.0;t+=0.001){

px=(1-t)\*(1-t)\*(1-t)\*x[0]+3\*t\*(1-t)\*(1-t)\*x[1]+3\*t\*t\*(1-t)\*x[2]+t\*t\*t\*x[3];

py=(1-t)\*(1-t)\*(1-t)\*y[0]+3\*t\*(1-t)\*(1-t)\*y[1]+3\*t\*t\*(1-t)\*y[2]+t\*t\*t\*y[3];

putpixel(px,py,WHITE);

delay(2);

}

getch();

closegraph();

}

OUTPUT:

