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PROGRAM:

Code:

```
#include<stdio.h>
#include<graphics.h>
#include<conio.h>
#include<math.h>
void main(){
  int x[4],y[4],i;
  double puty,putx,t;
  int gd=DETECT,gm;
  initgraph(&gd,&gm,"C:\\TURBOC3\\BGI");
  for (i = 0; i < 4; i++)
  {
    printf("Enter x and y coordinated of point %d: ",i+1);
    scanf("%d%d",&x[i],&y[i]);
    putpixel(x[i],y[i],3);
  }
  for(t=0.0;t=1.0;t=t+0.001)
    putx = pow(1-t,3)*x[0] + 3*t*pow(1-t,2)*x[1] + 3*t*t*pow(1-t,1)*x[2] +
pow(t,3)*x[3];
    puty = pow(1-t,3)*y[0] + 3*t*pow(1-t,2)*y[1] + 3*t*t*pow(1-t,1)*y[2] +
pow(t,3)*y[3];
    putpixel(putx,puty,WHITE);
  }
  getch();
  closegraph();
  }
```

OUTPUT:

