**DEPARTMENTOFCOMPUTER**

**ENGINEERING**

**Name: Rahul Choudhary**

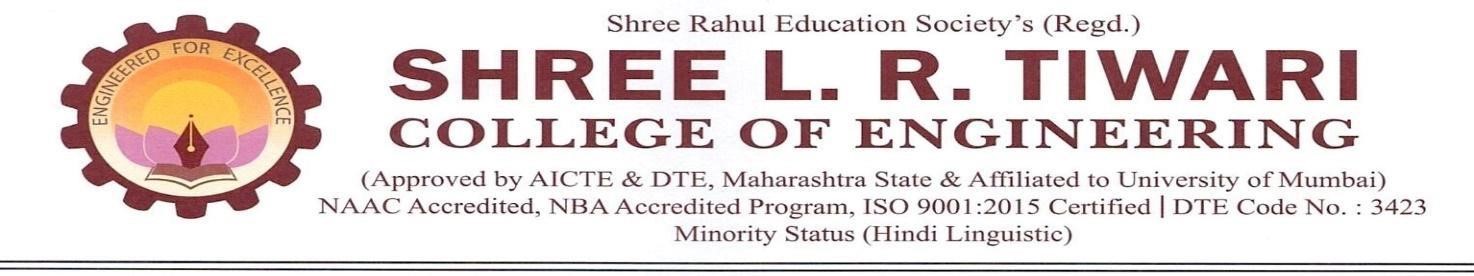
**Class: SE-CMPN**

**Div./Roll No.: A-1/ 15**

#include<graphics.h>

#include<math.h>

#include<conio.h> #include<stdio.h> void main()

{

int x[4],y[4],i; double put\_x,put\_y,t; int gr=DETECT,gm; initgraph(&gr,&gm,"C:\\TURBOC3\\BGI");

printf("\n Please enter x and y coordinates "); for(i=0;i<4;i++)

{ scanf("%d%d",&x[i],&y[i]); putpixel(x[i],y[i],3); // Control Points

} for(t=0.0;t<=1.0;t=t+0.001) // t always lies between 0 and 1

{ put\_x = pow(1-t,3)\*x[0] + 3\*t\*pow(1-t,2)\*x[1] + 3\*t\*t\*(1-t)\*x[2] + pow(t,3)\*x[3]; //

Formula to draw curve

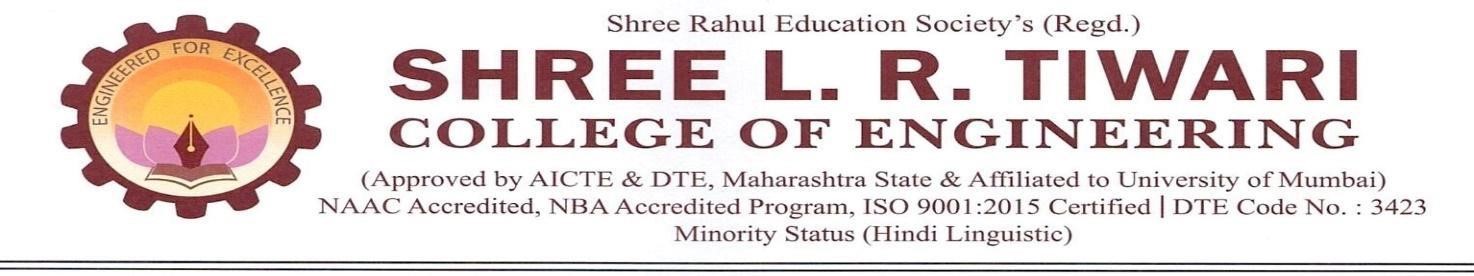
put\_y = pow(1-t,3)\*y[0] + 3\*t\*pow(1-t,2)\*y[1] + 3\*t\*t\*(1-t)\*y[2] + pow(t,3)\*y[3];

putpixel(put\_x,put\_y, WHITE); // putting pixel

} getch(); closegraph();

}

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**OUTPUT:**

