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#include<stdio.h>

#include<conio.h>

#include<iostream.h>

#include<graphics.h>

#include<math.h>


void main()

{

int gdriver=DETECT,gmode;

initgraph(&gdriver, &gmode, "c:\\turboc3\\bgi");


int x1,y1,x2,y2,tx,ty;

cout<<"Enter the initial and end coordinates of line"<<endl;

cin>>x1>>y1>>x2>>y2;

line(x1,y1,x2,y2);

cout<<"enter the translation factors"<<endl;

cin>>tx>>ty;

x1=x1+tx;

y1=y1+ty;

x2=x2+tx;

y2=y2+ty;

line(x1,y1,x2,y2);


int c,s,angle;

printf("Enter rotation angle: ");

scanf("%lf", &angle);


c = cos(angle *3.14/180);

s = sin(angle *3.14/180);

```

```
x1 = floor(x1 * c + y1 * s);  
y1 = floor(-x1 * s + y1 * c);  
x2 = floor(x2 * c + y2 * s);  
y2 = floor(-x2 * s + y2 * c);
```

```
line(x1, y1 ,x2, y2);  
getch();  
closegraph();  
}
```