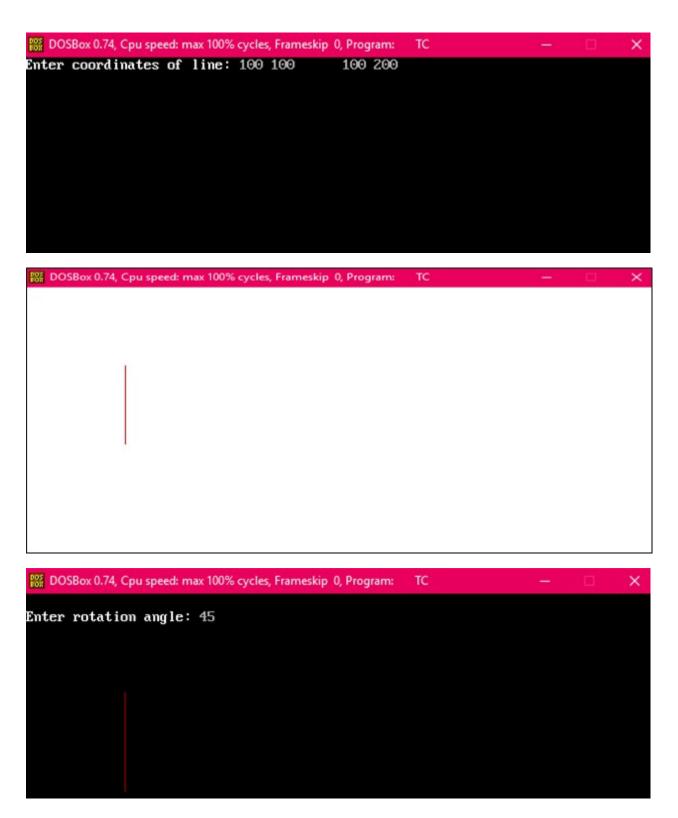
Program to rotate a line:

```
1. #include<stdio.h>
2. #include<graphics.h>
3. #include<math.h>
4. int main()
5. {
       intgd=0,gm,x1,y1,x2,y2;
6.
7.
       double s,c, angle;
       initgraph(\&gd, \&gm, "C:\TC\BGI");
8.
9.
       setcolor(RED);
10.
       printf("Enter coordinates of line: ");
11.
       scanf("%d%d%d%d",&x1,&y1,&x2,&y2);
12.
       cleardevice();
13.
       setbkcolor(WHITE);
14.
       line(x1,y1,x2,y2);
15.
       getch();
       setbkcolor(BLACK);
16.
17.
       printf("Enter rotation angle: ");
18.
       scanf("%lf", &angle);
19.
       setbkcolor(WHITE);
20.
       c = cos(angle *3.14/180);
21.
      s = sin(angle *3.14/180);
22.
      x1 = floor(x1 * c + y1 * s);
23.
      y1 = floor(-x1 * s + y1 * c);
24.
       x2 = floor(x2 * c + y2 * s);
25.
      y2 = floor(-x2 * s + y2 * c);
       cleardevice();
26.
27.
       line(x1, y1,x2, y2);
28.
       getch();
29.
       closegraph();
30. return 0;
31. }
```

Output:

Before rotation



After rotation

