```
#include<stdio.h>
#include<conio.h>
#include<math.h>
#includeprocess.h>
#include<graphics.h>
int x1,x2,y1,y2,mx,my,depth;
void draw();
void rotate();
void main()
  int gd=DETECT,gm,c;
  initgraph(&gd,&gm,"..s\\bgi");
  printf("\n3D Transformation Rotating\n\n");
  printf("\nEnter 1st top value(x1,y1):");
  scanf("%d%d",&x1,&y1);
  printf("Enter right bottom value(x2,y2):");
  scanf("%d%d",&x2,&y2);
  depth = (x2-x1)/4;
  mx = (x1+x2)/2;
  my=(y1+y2)/2;
  draw();
  getch();
  cleardevice();
  rotate();
  getch();
void draw()
  bar3d(x1,y1,x2,y2,depth,1);
void rotate()
  float t;
  int a1,b1,a2,b2,dep;
  printf("Enter the angle to rotate=");
  scanf("%f",&t);
  t=t*(3.14/180);
  a1=mx+(x1-mx)*cos(t)-(y1-my)*sin(t);
  a2=mx+(x2-mx)*cos(t)-(y2-my)*sin(t);
  b1=my+(x1-mx)*sin(t)-(y1-my)*cos(t);
  b2=my+(x2-mx)*sin(t)-(y2-my)*cos(t);
  if(a2>a1)
    dep=(a2-a1)/4;
  else
   dep=(a1-a2)/4;
  bar3d(a1,b1,a2,b2,dep,1);
```

```
setcolor(5);
//draw();
}
Output
```

3D Transformation Rotating

Enter 1st top value(x1,y1):200 : Enter right bottom value(x2,y2)

