## **PRACTICAL 3:**

**AIM:** Write a Program to draw line using Bresenham's Algorithm.

## **Source Code:**

```
#include<stdio.h>
#include<conio.h>
#include<graphics.h>
void drawline(int x0,int y0,int x1,int y1)
       int dx,dy,p,x,y;
       dx=x1-x0;
       dy=y1-y0;
       x=x0;
       y=y0;
       p=2*dy-dx;
       while(x < x1){
       if(p>=0){
       putpixel(x,y,7);
       printf("%d\t%d\n",x,y);
       y+=1;
       x+=1;
       p=p+2*dy-2*dx;
       else{
       putpixel(x,y,7);
       printf("%d\t\%d\n",x,y);
       p=p+2*dy;
       x+=1;
void main()
       int gd=DETECT,gm;
       int x0, x1, y0, y1;
       initgraph(&gd,&gm,"C:\\TURBOC3\\BGI");
       printf("Enter 1st coordinate: ");
       scanf("%d%d",&x0,&y0);
       printf("Enter 2nd coordinate: ");
       scanf("%d%d",&x1,&y1);
       drawline(x0,y0,x1,y1);
       getch();
}
```

## **Output:**



