## **BRESENHAM LINE DRAWING ALGORITHM**

```
#include<graphics.h>
#include<stdio.h>
#include<conio.h>
int main()
{
        int x,y,x1,y1,x2,y2,p,dx,dy;
        int gd=DETECT,gm=0;
        initgraph(&gd,&gm, "");
        printf("\n Enter x1 cordinate: ");
        scanf("%d",&x1);
        printf("\n Enter y1 cordinate: ");
        scanf("%d",&y1);
        printf("\n Enter x2 cordinate: ");
        scanf("%d",&x2);
        printf("\n Enter y2 cordinate: ");
        scanf("%d",&y2);
       x=x1;
       y=y1;
        dx=x2-x1;
        dy=y2-y1;
```

```
putpixel (x,y, RED);
p = (2 * dy-dx);
while(x \le x2)
{
        if(p<0)
        {
                x = x+1;
                p = p + 2*dy;
        }
        else
        {
                x = x + 1;
                y = y + 1;
                 p = p + (2 * dy) - (2 * dx);
        }
        putpixel (x,y, RED);
}
getch();
closegraph();
```

}

Enter x1 cordinate: 150
Enter y1 cordinate: 300
Enter x2 cordinate: 200
Enter y2 cordinate: 400