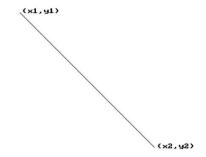
```
Roll No: 6
#include<stdio.h>
#include<conio.h>
#include<graphics.h>
#include<math.h>
float round(float a);
void main()
int x1, y1, x2, y2, N, k;
float x, y, dx, dy, m, P;
printf("Enter x1, y1: ");
scanf("%d%d",&x1,&y1);
printf("Enter x2, y2: ");
scanf("%d%d",&x2,&y2);
initgraph(&gd, &gm, "c:\\turbo3\\BGI");
dx=x2-x1;
dy=y2-y1;
if(abs(dx)>abs(dy))
N=abs(dx);
}
else
N=abs()dy;
P=2*dy-dx;
x = x1 + 1;
y=y1;
putpixel(round(x), round(y), WHITE);
m=dy/dx;
for (k=1; k \le N; k++)
  if (m<1)
    if(p<0)
     {
      x=x+1;
      P=P+2*dy;
     }
    else
    {
    x=x+1;
    y=y+2;
    P=P+2*(dy-dx);
    }
   else
    if(P<0)
```

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```
y=y+1;
     P=P+2*dx;
    else
    x=x+1;
    y=y+1;
    P=P+2(dx-dy);
   }
delay(100);
putpixel(round(x), round(y), WHITE);
outtextxy(200,20,"Bresenham's line drawing");
outtextxy(x1+5, y1-5, "(x1, y1)");
outtextxy(x2+5, y2-5, "(x2, y2)");
getch();
closegraph();
float round(float a)
int b=a+0.5;
return b;
}
```

Bresenham's line drawing



Activate Windows Go to Settings to activate Windows.