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**EXPERIMENT NO. 1**

**CODE:**

#include<stdio.h>

#include<conio.h>

#include<graphics.h>

void main()

{

int x0,y0,x1,y1,x,y,step,i,X,Y;

float xn,yn,xi,yi;

int gd=DETECT,gm;

initgraph(&gd,&gm," ");

printf("Enter the starting point and the terminal point of the line:");

scanf("%d%d%d%d",&x0,&y0,&x1,&y1);

x=x1-x0;

y=y1-y0;

if(abs(x)>abs(y))

step=abs(x);

else

step=abs(y);

xi=x/(float)step;

yi=y/(float)step;

putpixel(x0,y0,BLUE);

xn=x0;

yn=y0;

for(i=0;i<step;i++)

{

xn=xn+xi;

yn=yn+yi;

X=(int)xn+0.5;

Y=(int)yn+0.5;

putpixel(X,Y,WHITE);

}

getch();

closegraph();

}

**OUTPUT:**

