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Roll No : 6

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#include<stdio.h>

#include<conio.h>

#include<graphics.h>

#include<math.h>

float round(float a);

void main()

{

    int gd=DETECT,gm;

    int x1,y1,x2,y2,dx,dy,N,x,m,y,k;

    printf("Enter x1,y1");

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

    printf("Enter x2,y2");

    scanf("%d%d",&x2,&y2);

    initgraph(&gd,&gm,"c:\\\\turboc3\\\\BGI");

    dx=x2-x1;

    dy=y2-y1;

    if(abs(dx)>abs(dy))

        N=abs(dx);

    else

        N=abs(dy);
```

```

x=x1;

y=y1;

putpixel(round(x),round(y),WHITE);

m=dy/dx;

for(k=1;k<=N;k++)
{
    if(m<1)
    {
        x=x+1;

        y=m;

    }
    else if(m>1)
    {
        x=1/m;

        y=y+1;

    }
    else
    {
        x=x+1;

        y=y+1;

    }
    delay(100);

    putpixel(round(x),round(y),WHITE);
}

```

```

outtextxy(200,20,"DDA");

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;

}

```

DDA

