Bresenham's Line Drawing

EX.NO.1(A)

Aim:

To implement Bresenham's line drawing Algorithm for drawing lines.

Functions used:

Line()

The function line() is used to draw a line from(x1,y1)to (x2,y2)

Syntax:

line (x1,y1,x2,y2)

initgraph().

This function takes thee arguments and they are
i).the video driver to be used (gd).
ii).the graphics mode (gm).
iii).the path name.

Syntax:

Initgraph(gd,gm,path)

Algorithm:

Step 1: Start
Step 2: Get the values of the end points as(x1, y1) &(x2, y2)
Step 3: Assign x=x1, y=y1;
Step 4: Compute dx=x2-x1
Step 5: Compute dy=y2-y1
Step 6: Assign sx=x2-x1, sy=y2-y1
Step 7: If dy>dx then interchange the values of dx and dy and assign exch=1
Step 8: Compute p=2xdy-dx
Step 9: Put a pixel on(x,y)
Step 10: If exch=1, y=sy else x=x+sx
Step 11: If p>0 and exch =1, x=x+sx else y=y+sy, p=p-2xdx
Step 12: Compute p=p+2xdy
Step 13: Do steps (9) t0 (12) for dx times
Step 14: Stop

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Harvard University. Laboratory for Computer Graphics and Spatial Analysis

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