

## CS2405 Computer Graphics Lab - Manual

### 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 three arguments and they are

- i).the video driver to be used (gd).
- ii).the graphics mode (gm).
- iii).the path name.

##### Syntax:

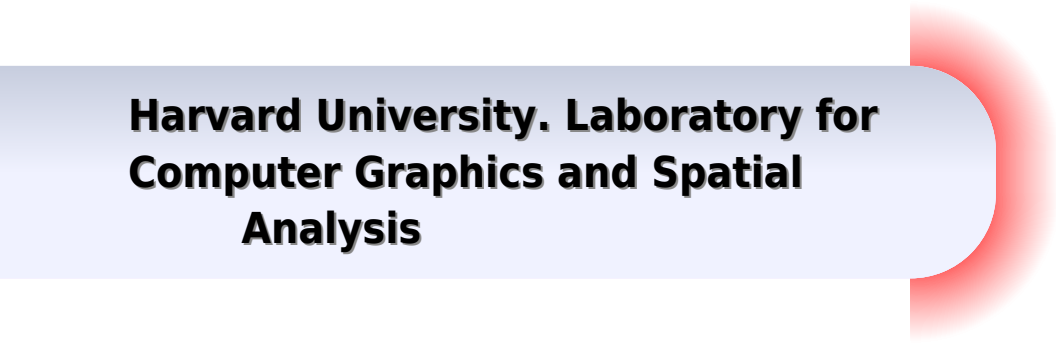
Initgraph(gd,gm,path)

##### 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  $exch=1$ ,  $y=y+sy$  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) to (12) for  $dx$  times
- Step 14: Stop

# Cs2405 Computer Graphics Lab Manual

**Harvard University. Laboratory for  
Computer Graphics and Spatial  
Analysis**



## **Cs2405 Computer Graphics Lab Manual:**

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Graphics Mini Manual ,1990      **Design of a Computer Graphics Laboratory** Ashok A. Grandhee,1985  
*Proceedings of the Technical Program* ,1974      *Graphics Mini Manual* National Aeronautics and Space Adm  
Nasa,2018-11-06 The computer graphics capabilities available at the Center are introduced and their use is explained More specifically the manual identifies and describes the various graphics software and hardware components details the interfaces between these components and provides information concerning the use of these components at LaRC Taylor  
Nancy L and Randall Donald P and Bowen John T and Johnson Mary M and Roland Vincent R and Matthews Christine G and Gates Raymond L and Skeens Kristi M and Nolf Scott R and Hammond Dana P Langley Research Center      *Computer Graphics Problems Manual* Daniel L. Ryan,1983

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