

NAME - SHIVANSH SETHI

COURSE - BLA 6 B

ROLLNO - 1121137 (J5)

SUBJECT - COMPUTER GRAPHICS

*Geetha*

Code -

(P1) #include <stdio.h>  
#include <graphics.h>

void floodfill (int x, int y, int old, int newcol)

{

int curcol;

curcol = getpixel (x, y);

if (curcol == old)

{ delay(10);

putpixel (x, y, newcol);

floodfill (x+1, y, old, newcol);

floodfill (x-1, y, old, newcol);

floodfill (x, y+1, old, newcol);

floodfill (x, y-1, old, newcol);

floodfill (x+1, y+1, old, newcol);

floodfill (x-1, y+1, old, newcol);

floodfill (x+1, y-1, old, newcol);

floodfill (x-1, y-1, old, newcol);

}

*Geetha*

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SHIVAN SH SETHI

(1121137)

void main()

{

int gd = DETECT, gm;

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

rectangle(50, 50, 200, 200);

floodfill(70, 70, 0, 15);

getch();

closegraph();

}

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AlgoGreedyfloodfill ( $x, y, \text{newcolor}, \text{oldcolor}$ )

- 1) If  $x$  or  $y$  is outside the screen then return  $x$ .
- 2) If color of  $\text{getpixel}(x, y)$  is same as old color then for top.
- 3) Recur for top, bottom, right, left

floodfill ( $x, y, \text{oldcolor}, \text{newcolor}$ )floodfill ( $x+1, y, \text{oldcolor}, \text{newcolor}$ )floodfill ( $x-1, y, \text{oldcolor}, \text{newcolor}$ )floodfill ( $x, y+1, \text{oldcolor}, \text{newcolor}$ )floodfill ( $x, y-1, \text{oldcolor}, \text{newcolor}$ )floodfill ( $x+1, y+1, \text{oldcolor}, \text{newcolor}$ )floodfill ( $x-1, y+1, \text{oldcolor}, \text{newcolor}$ )floodfill ( $x+1, y-1, \text{oldcolor}, \text{newcolor}$ )floodfill ( $x-1, y-1, \text{oldcolor}, \text{newcolor}$ )Greedy