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Nikhil

Algorithm:

Step 1:- Start

Step 2: Initialize the value of seed point $(x, y, \text{old_color})$.

Step 3:- Define the boundary value:

Step 4: Check if the current seed point is of default color, then repeat the steps 4 and 5 till the boundary pixels reached.

if (current == 0 & x)

Step 5: Recursively following the below procedure:

$\text{floodfill}(x, y, \text{fill_color}, \text{old_color})$ integer

check whether $\text{getpixel}(x, y) = \text{old_color}$ then

$\text{setpixel}(x, y, \text{fill_color})$;

$\text{fill}(x+1, y, \text{fill_color}, \text{old_color})$

$\text{fill}(x-1, y, \text{fill_color}, \text{old_color})$

$\text{fill}(x, y+1, \text{fill_color}, \text{old_color})$

$\text{fill}(x, y-1, \text{fill_color}, \text{old_color})$

Step 6:- Stop.

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Program:-

(2)

include <stdio.h>
include <graphics.h>

include <conio.h>

void floodfill (int x, int y, int old, int new-col)

{
int current;

current = getpixel (x, y);

if (current == old)

{
delay (5);

putpixel (x, y, new-col);

floodfill (x+1, y, old, new-col);

floodfill (x-1, y, old, new-col);

floodfill (x, y+1, old, new-col);

floodfill (x, y-1, old, new-col);

floodfill (x+1, y+1, old, new-col);

floodfill (x-1, y+1, old, new-col);

floodfill (x+1, y-1, old, new-col);

floodfill (x-1, y-1, old, new-col);
}

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```

void main()
{
    int gd = DETECT, gm;
    initgraph(&gd, &gm, "");
    rectangle(50, 50, 150, 150);
    floodfill(70, 70, 0, 1);
    getch();
    closegraph();
}

```


