```
NAME- Deepankar Sharma
COURSE- BCA
ROLL NO- 2092014
SUBJECT- Computer graphics lab
PRACTICLE-14
OBJECTIVE- To implement Boundary Fill Algorithm through graphics.
SYNTAX:-
#include <stdio.h>
#include <conio.h>
#include <graphics.h>
#include <dos.h>
void flood(int, int, int, int);
void boundary fill(int pos x, int pos y, int fill color, int
boundary color)
   int current color = getpixel(pos x, pos y);
// get the color of the current pixel position
   if (current color != boundary color && current color !=
fill color) // if pixel not already filled or part of the boundary
then
   {
       putpixel(pos x, pos y, fill color);
                                                                   //
change the color for this pixel to the desired fill color
       boundary fill(pos x + 1, pos y, boundary color, fill color);
// perform same function for the east pixel
       boundary fill(pos x - 1, pos y, boundary color, fill color);
// perform same function for the west pixel
       boundary fill(pos x, pos y + 1, boundary color, fill color);
// perform same function for the north pixel
       boundary fill(pos x, pos_y - 1, boundary_color, fill_color);
// perform same function for the south pixel
   }
}
int main()
{
   int gd = DETECT, gm;
   initgraph(&gd, &gm, "C:/TURBOC3/bgi");
   setcolor(RED);
   rectangle(50, 50, 250, 250);
```

// flood(55, 55, 10, 0);

```
boundary_fill(105, 200, YELLOW, RED);

getch();
}
void flood(int x, int y, int fillColor, int defaultColor)
{

   if (getpixel(x, y) == defaultColor)
   {

      // delay(1);
      putpixel(x, y, fillColor);
      flood(x + 1, y, fillColor, defaultColor);
      flood(x - 1, y, fillColor, defaultColor);
      flood(x, y + 1, fillColor, defaultColor);
      flood(x, y - 1, fillColor, defaultColor);
   }
}
```

Output:

