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Div: C Batch: C4

Course Name: PBL3- Computer Graphics & Gaming

Course Code: BCE5504

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## **Problem Definition:**

Write C++/Java program to fill the above patterns mentioned in assignment 1(House) with desired color using Seed fill algorithm

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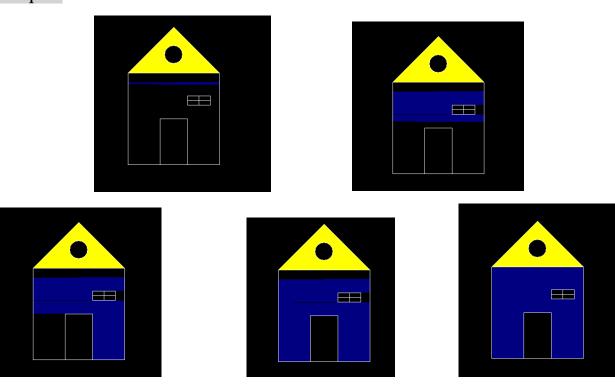
## Input:

```
#include<stdio.h>
                                                    if(getpixel(x, y) !=
                                              boundary_color &&
#include<stdlib.h>
                                              //
                                                       getpixel(x, y) != fill_color)
#include<graphics.h>
                                              //
                                                        putpixel(x, y, fill_color);
void flood(int x,int y,int fillColor,
int bgColor)
                                                        boundaryFill(x + 1, y,
                                              boundaryFill(x, y + 1,
   if(getpixel(x,y)==bgColor)
                                              fill_color, boundary_color);
                                                        boundaryFill(x - 1, y,
                                              fill_color, boundary_color);
       putpixel(x,y,fillColor);
                                                        boundaryFill(x, y - 1,
       flood(x+1,y,fillColor,bgColor);
                                              fill_color, boundary_color);
       flood(x-1,y,fillColor,bgColor);
       flood(x,y+1,fillColor,bgColor);
                                              //}
       flood(x,y-1,fillColor,bgColor);
   }
                                              int main()
}
                                               int gd = DETECT, gm;
//void boundaryFill(int x, int y, int
                                               initgraph(&gd, &gm, NULL);
fill_color, int boundary_color)
//{
                                              // triangle
```

## TYCOC303\_PBL3\_CGG\_Ass2

```
line(300,100,400,200);
                                                // window
 line(300,100,200,200);
                                                line(330,250,330,270);
line(200,200,400,200);
                                                line(380,250,380,270);
// side 2 line
                                                line(330,250,380,250);
line(200,200,200,400);
                                                line(330,270,380,270);
line(400,200,400,400);
                                                line(330,260,380,260);
// horizontal last line
                                                line(355,250,355,270);
line(200,400,400,400);
                                                flood(300,110,14,0);
// door
line(270,300,270,400);
                                                // fill wall
line(330,300,330,400);
                                                flood(300, 220, 1, 0);
line(270,300,330,300);
                                                delay(500000);
//circle
                                                closegraph();
circle(300,160,20);
                                                return 0;
                                               }
```

## Output:



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