END TERM PRACTICALS EXAM

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Course - BCA (B) II Sem
Roll No - 1121130 (49)
Subject - Computer Graphics
Exan Type - Regular

Baurray

Q1 Flood fill Algorithm using 8 Connected Approach include (stdio h) # include (quaphies h) # irrelude (dos. h) # include (conio: h) void floodfill (int x, int y, int old, introde) int current; Current = getpinel (x,y); if (current = = old) dulay (5); putpiral (x, y, new); floodfill (x+1, y, old, new); floodfill (x-1, y, old, new); floodfill (x, y+1, old, new); floodfill (x, y-1, old, new); floodfill (x+1,y+1,old, new); floodfill (x-1, y+1, old, new); floodfill (x+1, y-1, old, new); floodfill (x-1, y-1, old, new).

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void main () intgol = DETECT gm; intgraph (lgd, lgm, ""); rutangle (50,50, 150, 150) floodfile (70,70,0,15);
getch(); dosigraph ();

Output:

= Algorithm for flood fill Algorithm Step 1 - Start
Step 2 - Tritialize the value of sud point (x, y)
old, new old, new Step 3 - Define the boundary values of rectargle Stop 4 - Chuck if the current sud point is of default color thur superat the stops 5 and 6 till the boundary pinels reached Step 45 change the default color with the fill color at the sud point Set land Pulpiral Pulpiral (x, y, new) > Step 5 - Recursively follow the procedure with 4 neighbourhood point floodfill (x+1, y, old, new) floodfill (x-1, y, old, new) floodfill (x, y+1, old, new) floodfill (x, y-1, old, new) floodfill (x+1,y+1, old, new) floodfill (x-1, y+1, old, new) floodfill (x+1, y-1, old, new) floodfill (x-1,y-1, old, new) Stup 7 \$ Stop Bauray