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**ROLL NUMBER: 73** 

CLASS: SY-B

## **ASSIGNMENT 1**

## Problem Statement: Write a program to implement DDA Line drawing algorithm

```
CODE:
    int steps = abs(dx) > abs(dy) ? abs(dx) : abs(dy);
    float yc = (float)dy / steps;
    for (int i = 0; i <= steps; ++i) {
    setfillstyle(WIDE DOT FILL, LIGHTRED);
```

```
setfillstyle(SOLID FILL, GREEN);
drawLineDDA(1000, 600, 1000, 400);
drawLineDDA(1000, 400, 1100, 400);
drawLineDDA(1100, 300, 1100, 400);
drawLineDDA(1300, 300, 1300, 400);
setfillstyle(LTSLASH FILL, BLACK);
floodfill(1050, 500, WHITE);
drawLineDDA(400, 300, 600, 300); // top
drawLineDDA(600, 300, 600, 350); // right
drawLineDDA(400, 350, 600, 350); //bottom
```

```
return 0;
}
```

## OUTPUT:

