Nama: Ngasiroh Nurjayatri

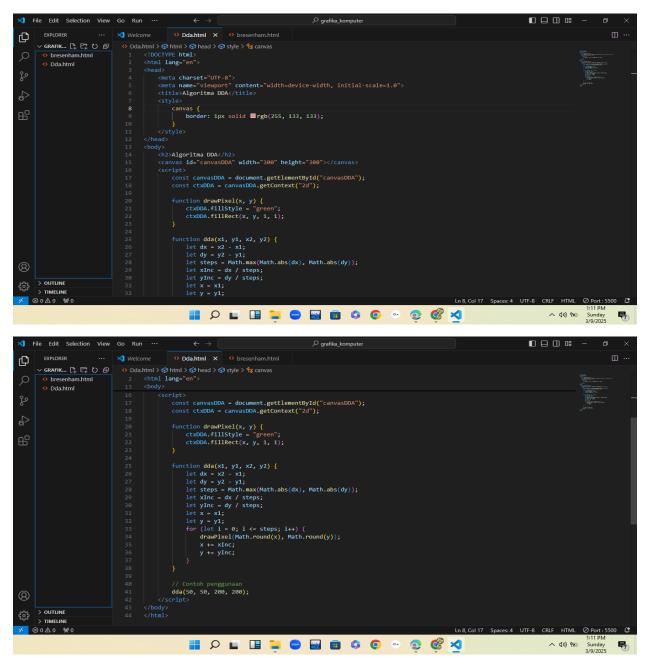
Npm : 2257051032

Kelas : D

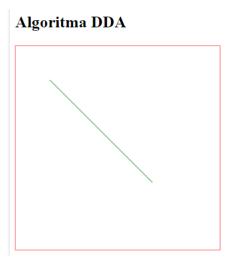
Tugas pembentukan garis menggunakan algoritma DDA dan Bresenham

1. Menggunakan Algoritma DDA

• Source Code

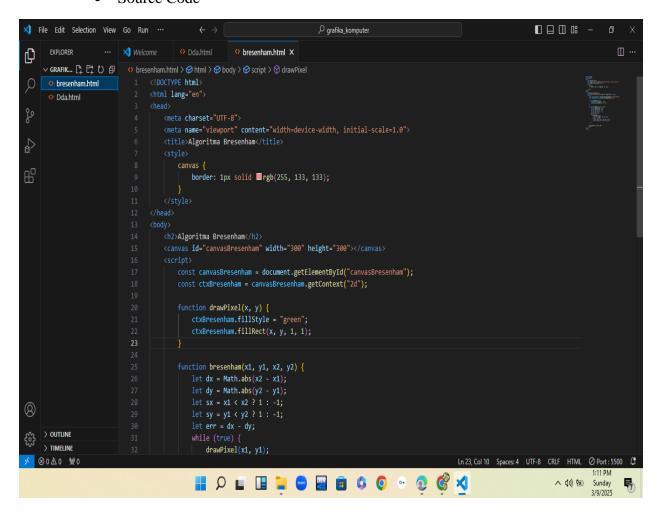


Hasil



2. Menggunakan Algoritma Bresenham

Source Code



```
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∠ grafika_komputer

                                                                                                                                                                                            Ð
       <canvas id="canvasBresenham" width="300" height="300"></canvas>
                                                      const canvasBresenham = document.getElementById("canvasBresenham");
const ctxBresenham = canvasBresenham.getContext("2d");
                                                       function drawPixel(x, y) {
    ctxBresenham.fillStyle = "green";
    ctxBresenham.fillRect(x, y, 1, 1);
                                                       function bresenham(x1, y1, x2, y2) {
    let dx = Math.abs(x2 - x1);
    let dy = Math.abs(y2 - y1);
    let sx = x1 < x2 ? 1 : -1;
    let sy = y1 < y2 ? 1 : -1;

                                                            let sy = y1 < y2 ? 1 : -1;
let err = d x - dy;
while (true) {
    drawPixel(x1, y1);
    if (x1 == x2 && y1 === y2) break;
    let e2 = 2 * err;
    if (e2 > -dy) { err -= dy; x1 += sx; }
    if (e2 < dx) { err += dx; y1 += sy; }</pre>
                                                       bresenham(50, 50, 200, 200);
       > TIMELINE
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                                                                                                                                                                                                   1:12 PM

^ (1)) ♥☑ Sunday

3/9/2025
```

• Hasil

