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Kelas : D

Mata Kuliah: Grafikom

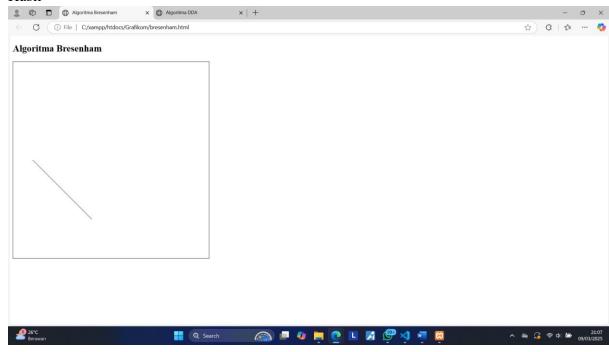
Tugas Algoritma Pembentukan Garis Bersenham dan DDA

1. Algortima Bersenham

• Source Code:

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Algoritma Bresenham</title>
    <style>
        canvas {
            border: 1px solid black;
    </style>
</head>
    <h2>Algoritma Bresenham</h2>
    <canvas id="canvasBresenham" width="500" height="500"></canvas>
    <script>
        const canvasBresenham = document.getElementById("canvasBresenham");
        const ctxBresenham = canvasBresenham.getContext("2d");
        function drawPixel(x, y) {
            ctxBresenham.fillStyle = "black";
            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 err = dx - 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; \}
            }
        bresenham(50, 250, 200, 400);
    </script>
</body>
```

Hasil



2. Algoritma DDA

• Source Code:

• Hasil:

