

TUGAS INDIVIDU MATA KULIAH GRAFIKA KOMPUTER

“Algoritma Pembuatan Garis DDA (Digital Differential Analyzer)”



Dosen Pengampu :

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Disusun Oleh:

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PROGRAM STUDI PENDIDIKAN TEKNOLOGI INFORMASI

JURUSAN PENDIDIKAN MATEMATIKA DAN ILMU PENGETAHUAN ALAM

FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN

UNIVERSITAS LAMPUNG

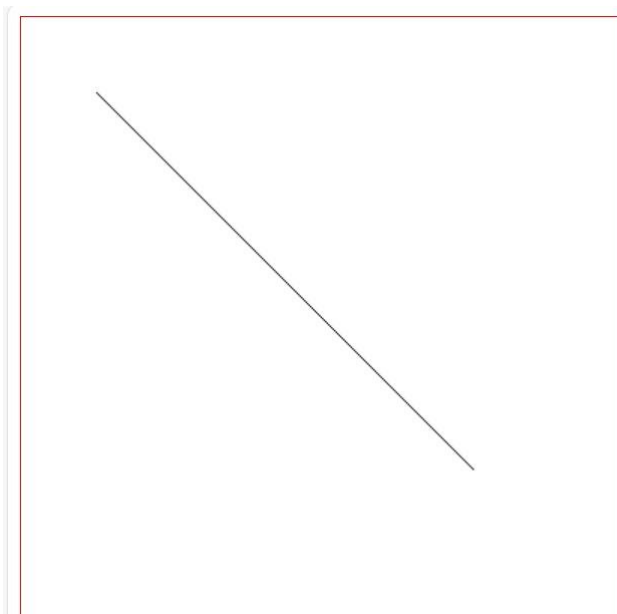
2025

I. Hasil Pembuatan Garis DDA

- HTML

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Tugas Algoritma Garis DDA_Dinda Aulia Natasya</title>
7      <style>
8          canvas {
9              border: 1px solid red;
10         }
11     </style>
12 </head>
13 <body>
14     <canvas id="Canvasku" width="400" height="400"></canvas>
15     <script>
16         function drawLineDDA(x0, y0, x1, y1, color) {
17             let canvas = document.getElementById("Canvasku");
18             let ctx = canvas.getContext("2d");
19             ctx.fillStyle = color;
20
21             let dx = x1 - x0;
22             let dy = y1 - y0;
23             let steps = Math.max(Math.abs(dx), Math.abs(dy));
24
25             let xinc = dx / steps;
26             let yinc = dy / steps;
27
28             let x = x0;
29             let y = y0;
30
31             for (let i = 0; i <= steps; i++) {
32                 ctx.fillRect(Math.round(x), Math.round(y), 1, 1);
33                 x += xinc;
34                 y += yinc;
35             }
36         }
37
38         drawLineDDA(50, 50, 300, 300, "blue");
39     </script>
40 </body>
41 </html>
```

Output:



- EXEL

