Algorithm: DDA Line Drawing

Step 1: Start and take the input points ((x_1, y_1)) and ((x_2, y_2)).

Step 2: Calculate the differences in x and y coordinates:

($dx = x_2 - x_1$) and ($dy = y_2 - y_2$).

Step 3: Determine the number of steps required to draw the line:

steps = int(\max(|dx|, |dy|)).

Step 4: Calculate the increments for each step:

x_{inc} = dx / steps and y_{inc} = dy / steps

Step 5: Initialize starting coordinates:

($x = x_1$) and ($y = y_1$).

Step 6: Loop through each step from 0 to steps:

Add the current ((x, y)) coordinate (rounded to the nearest integer) to the list of points.

Increment (x) and (y) by (x_{inc}) and (y_{inc}).

Step 7: Plot the line using all calculated points. Use a plotting library (like Matplotlib) to draw the points and connect them. Add title, axis labels, and grid for clarity.

Step 8: End.