Implementation of DDA line Drawing Algorithm(Python)

Algorithm: DDA Line Drawing

step 1: Input the starting and ending co-ordinate of the line:(x_1,y_1) and (x_2,y_2)

step 2: Calculate the differences of the co-ordinate: $dx=x_2-x_1$ and $dy=y_2-y_1$

step 3: Determine the number of steps : steps= int(max(abs(dx), abs(dy)))

step 4: Calculate the increments values: x_inc = dx/steps and y_inc = dy/steps

step 5: Initialize starting points: $x = x_1$ and $y = y_1$

step 6: Plot the point(x,y

step 7: Repeat the following for steps times:x=x+x_inc and y=y+y_inc,plot the point(round(x),round(y))

step 8: End