# **Lab 1: Digital Differential Analyzer (DDA) Algorithm Implementation**

* Input (x0,y0) // End points of line
* Δx=x1-x0 , Δy=y1-y0
* Steps=max(abs(Δx),abs(Δy))
* x-increment=Δx/steps
* y-increment=Δy/steps
* Initialize x=x0 , y=y0

xes=[ ], yes=[ ]

for i in range(steps)

xes.append(x)

yes.append(y)

update x=x-increment

y=y-increment

* Plot(round(x), round(y))

Using matplotlib

Output

