SOURCE CODE

```
1. import pygame
2. import sys
3.
4.
5.
6. def ddaLine(x1,y1,x2,y2):
7.
       dx = x2 - x1
8.
       dy = y2 - y1
9.
10.
              if(dx>dy):
11.
                  steps = abs(dx)
12.
              else:
13.
                  steps = abs(dy)
14.
15.
              xinc = dx / steps
16.
             yinc = dy / steps
17.
18.
             x = x1
19.
             y = y1
20.
21.
              for i in range(int(steps) + 1):
22.
                  screen.set_at((round(x), round(y)), WHITE)#plot(int(x), int(y))
23.
                  x = x + xinc
24.
                  y = y + yinc
25.
26.
27.
28.
          pygame.init()
29.
         WIDTH = 800
30.
         HEIGHT = 600
31.
32.
          screen = pygame.display.set_mode((WIDTH, HEIGHT))
33.
34.
         pygame.display.set_caption("DDA Line Drawing Algorithm")
35.
36.
         WHITE = (12, 15, 255)
37.
          BLACK = (255, 255, 255)
38.
39.
40.
          def main():
41.
              while True:
42.
                  for event in pygame.event.get():
43.
                      if event.type==pygame.QUIT:
44.
                          pygame.quit()
45.
                          sys.exit()
```

OUTPUT

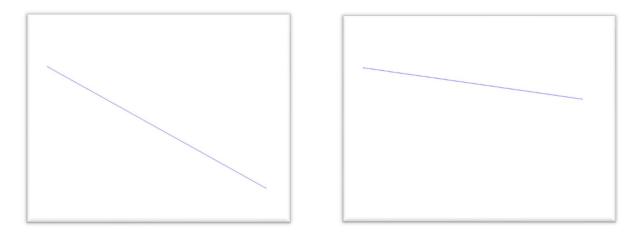


Fig 2.1. Outputs of DDA Line Algorithm