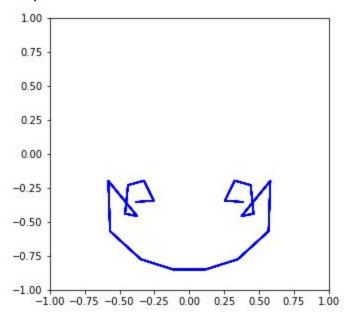
## AE 625 ASSIGNMENT-2

#### Results:

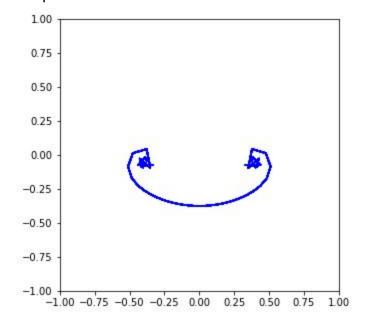
Vortex sheet roll-up Using:

1. Point vortices:

For point vortices = 20

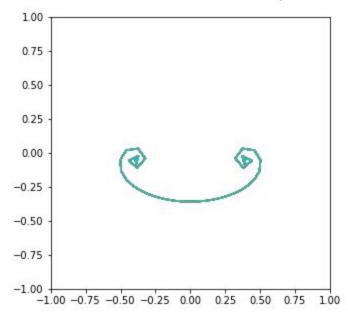


### For point vortices = 50

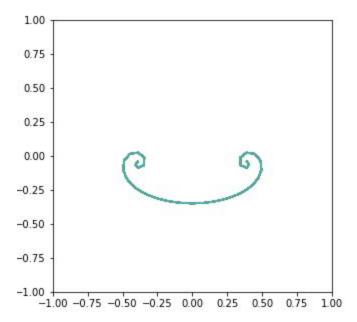


### 2. Using Krasny Blob:

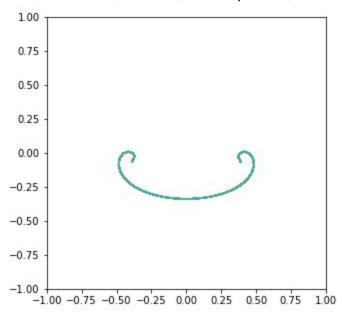
For delta = 2\*dx and 50 blobs, timestep=0.01, no of steps= 5000



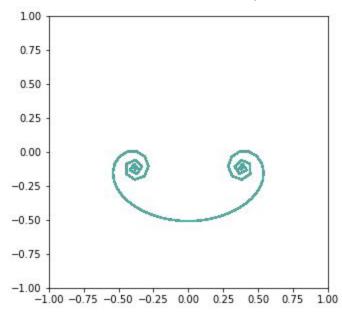
#### For delta = 3\*dx



For delta = 4\*dx, 50 blobs, timestep=0.01, no of steps= 5000

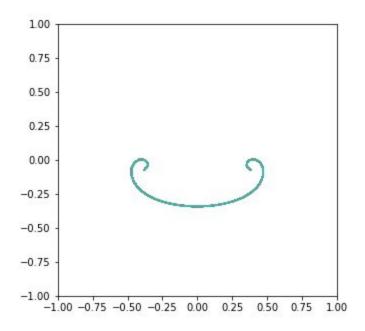


For delta = 4\*dx ,80 blobs, timestep=0.01, no of steps= 5000



We can see that if we increase the delta the smoothness increases and better simulation is obtained.

# 3. Placing blobs at position: $bsin(\theta)$ Using 50 blobs , delta = 4\*dx, steps=1000, dt = 0.01



Using 100 blobs , delta = 4\*dx, steps=1000, dt = 0.01

