

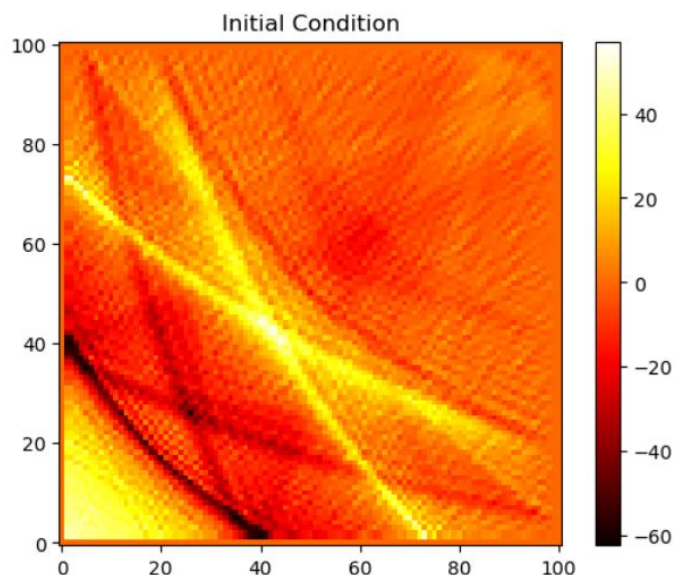
Assignment – 3

1. To increase the accuracy of the pie we can increase the no of operations we are doing but it also depends on area of circle, larger the area more the chances of a random no to come inside and ratio of inside and outside will be close to the pie value.

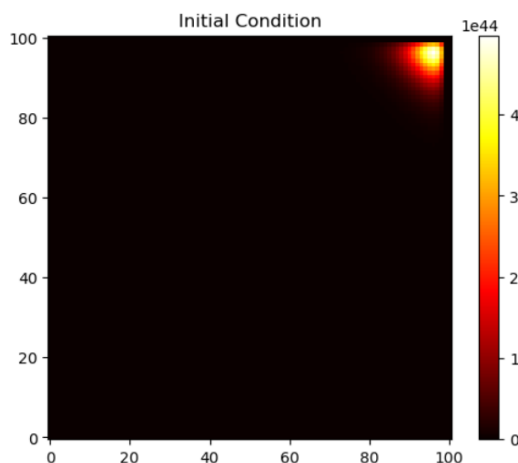
Estimated value of Pie : 3.156

2. As the value of lambda is increasing from 0.2 region of the circle is expanding and a lambda comes when it fully lost its shape.

For lambda = 0.5 it's kind of weird



Then after it suddenly shrinked



For $\lambda = 0.2$

