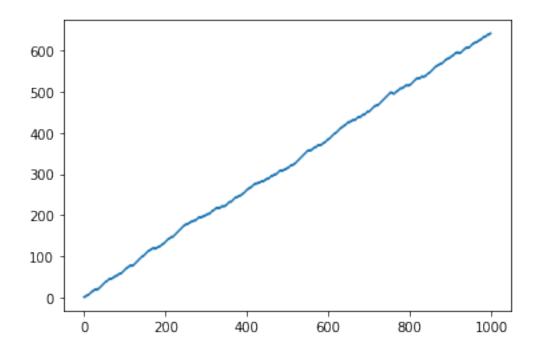
Russian_Roulette

August 21, 2021

```
[30]: import random
      import os
      import sys
[31]: chambers=6
[32]: sum = 0
      T=0
      y=[]
      living=0
      dying=0
[33]: for i in range(0,1000):
          fatal_bullet=random.randint(1,int(chambers))
          bullet=random.randint(1,int(chambers))
          if bullet==fatal_bullet:
              sum = sum - 1
              dying+=1
          else:
              sum = sum + 1
              living+=1
          y.append(sum)
[34]: from matplotlib import pyplot as plt
      plt.plot(y)
      plt.show()
```



1/6 chance of dying, 5/6 chance of surviving

[35]: total=living+dying living_prob=living/total dying_prob=dying/total

[36]: print(living_prob)
print(dying_prob)

0.821

0.179