```
mport numpy as np
mport matplotlib.pyplot as plt
                         pHeads = 0.25
             pBiased = 0
flips = 0
biasProbs = []
                          r = np.random.rand()
if r <= pHeads:
                          else:
seq.append("T")
flips += 1
                          numH = seq.count("H")
numT = seq.count("T")
  flips))/2)
biasProbs.append(pBiased)
 fairSim1 = seqSim(False, 100)
fairSim2 = seqSim(False, 100)
fairSim3 = seqSim(False, 100)
fairSim4 = seqSim(False, 100)
fairSim5 = seqSim(False, 100)
 biasSim1 = seqSim(True, 100)
biasSim2 = seqSim(True, 100)
biasSim3 = seqSim(True, 100)
biasSim4 = seqSim(True, 100)
biasSim5 = seqSim(True, 100)
x = range(100)
plt.figure()
plt.plot(x, fairSim1)
plt.plot(x, fairSim2)
plt.plot(x, fairSim3)
plt.plot(x, fairSim4)
plt.plot(x, fairSim5)
plt.xlabel('Number of Flips')
plt.xlabel('Probability of Biased Coin Picked')
plt.title('Probability of Biased Coin Picked using a Fair Coin')
plt.stabe(')
plt.figure()
plt.plot(x, biasSim1)
plt.plot(x, biasSim2)
plt.plot(x, biasSim3)
plt.plot(x, biasSim4)
plt.plot(x, biasSim5)
plt.xlabel('Number of Flips')
plt.xlabel('Probability of Biased Coin Picked')
plt.title('Probability of Biased Coin Picked using a Biased Coin')
plt.show()
```



