ASSIGNMENT2

February 19, 2025

[36]:
```
import numpy as np
import matplotlib.pyplot as plt

ff=[]
x=np.random.randint(0,2,size=10000)
for n in range(3,9999):
    if sum(x[n-3:n+1])==4:
        ff.append(x[n+1])
y=0
z=len(ff)
if y >= z / 2:
    print('At least half are tails')
else:
    print('Less than half are tails')
```

```
Less than half are tails
```

[6]:
```
import numpy as np
import matplotlib.pyplot as plt
aa=[]
hh=0
Heads=2
for n in range(2,9999):
    flip1=np.random.randint(0,2)
    if flip1==Heads:
        flip2=np.random.randint(0,2)
        if flip2 == Heads:
            hh+=1
    if flip1==Heads and flip2==Heads:
        aa.append(flip1 and flip2)
```

[ ]:
```

```