Blackjack

August 3, 2022

0.0.1 Simulación Blackjack

[36]:
```
import numpy as np
```

[37]:
```
jack=10
queen=10
king=10
ace=11
suit=[2,3,4,5,6,7,8,9,10,jack,queen,king,ace]
deck=4*suit
p_deck=2*deck
```

[38]:
```
def round():
    h_p=[]
    h_d=[]
    h_p.append(np.random.choice(p_deck,replace=False))
    h_d.append(np.random.choice(p_deck,replace=False))
    h_p.append(np.random.choice(p_deck,replace=False))
    h_d.append(np.random.choice(p_deck,replace=False))

    #print('Tus cartas son:', h_p)



    p_p=sum(h_p)
    p_d=sum(h_d)

    #print('Las cartas del dealer son:', h_d)

    if p_p>p_d:
        res="Ganaste"
    elif p_p==p_d:
        res="Empataste"
    else:
        res="Perdiste"
    return res
```

[39]:
```
sim=[]
n_sim=10000
```

```
for i in range(n_sim):
    sim.append(round())
ng=sim.count("Ganaste")
ne=sim.count("Empataste")
np=sim.count("Perdiste")
print(f'Jugaste {n_sim} veces. Ganaste {ng}, empataste {ne}, y perdiste {np}.')
```

```
Jugaste 10000 veces. Ganaste 4605, empataste 720, y perdiste 4675.
```