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#Bibliotecas
import random as r
import collections
import matplotlib.pyplot as plt

sumatoria = []

Items = [100, 1000, 10000, 100000]

for j in range(0, len(Items)):
    sumatoria.clear()
    #sumatoria de las frecuencias
    print("Numero repeticiones ", Items[j])
    for i in range(Items[j]):
        a = r.randint(1, 6)
        b = r.randint(1, 6)
        sumatoria.append(a+b)

    counter = collections.Counter(sumatoria)

    print('Frecuencias : ', counter,"\n")


    #Histograma

    plt.bar(counter.keys(), counter.values(), color='#33D0FF', edgecolor = 'black')

    plt.xlabel('Valores del dado')

    plt.ylabel('Sumatoria')

    plt.show()
```

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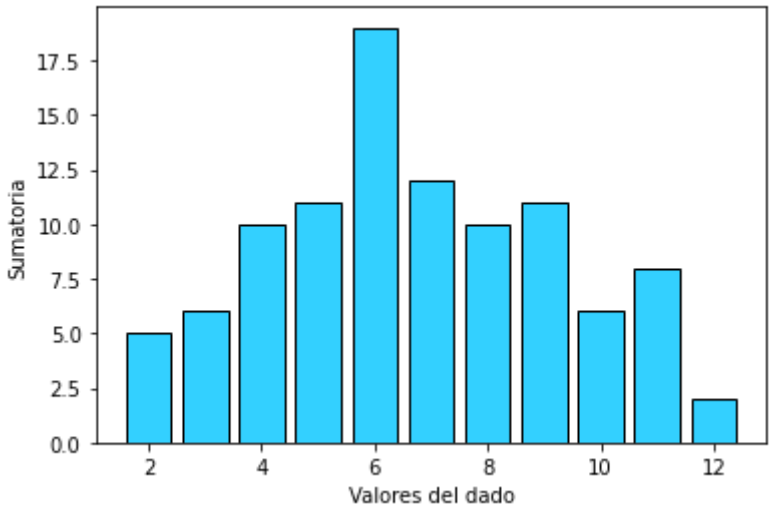
Numero repeticiones  100
Frecuencias :  Counter({6: 19, 7: 12, 9: 11, 5: 11, 8: 10, 4: 10, 11: 8, 10: 6, 3: 6,
```

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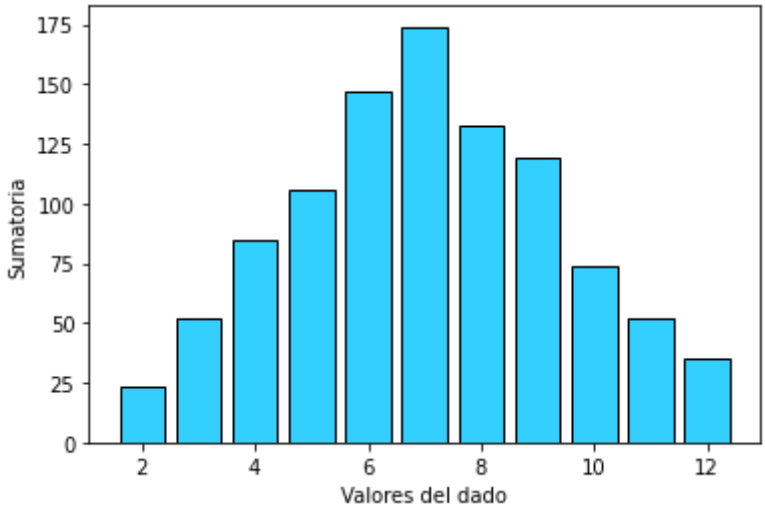
Numero repeticiones  1000
Frecuencias :  Counter({7: 174, 6: 147, 8: 133, 9: 119, 5: 106, 4: 85, 10: 74, 11: 52
```

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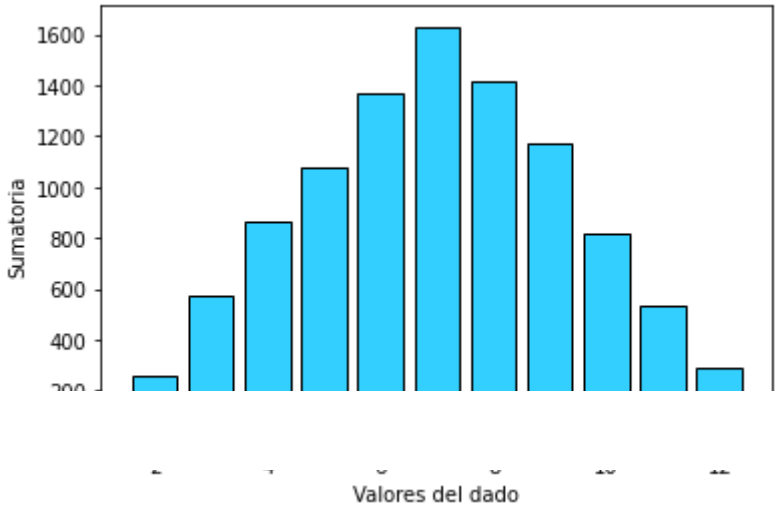
Numero repeticiones  10000
Frecuencias :  Counter({7: 1631, 8: 1416, 6: 1370, 9: 1171, 5: 1075, 4: 868, 10: 816,
```



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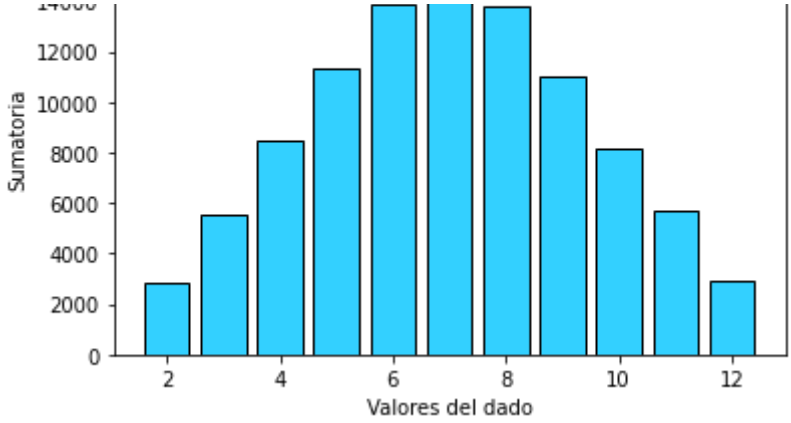
Numero repeticiones  100000
Frecuencias :  Counter({7: 16435, 6: 13882, 8: 13825, 5: 11312, 9: 11006, 4: 8439, 10
```



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