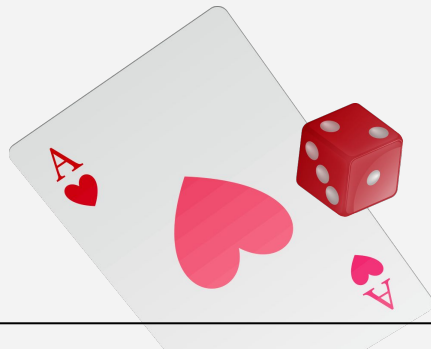
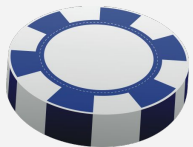

Blackjack PROJECT

Python and Math Fundamentals Course



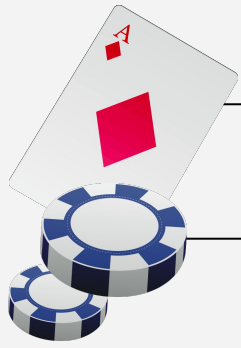


INTRODUCTION

Objective: Using python, create a blackjack game for two players.

Goal: Analyze three blackjack strategies to determine the best strategy for our next trip to the casino so we can win big!



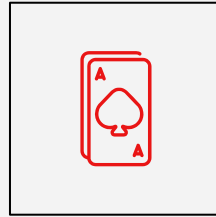


GAME STRATEGIES



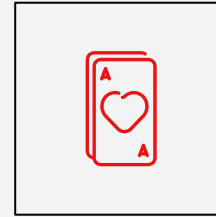
LIGHT HITTER

Hit = total < 11



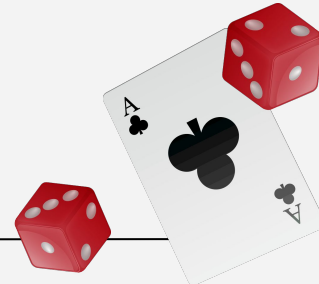
CONVENTIONAL

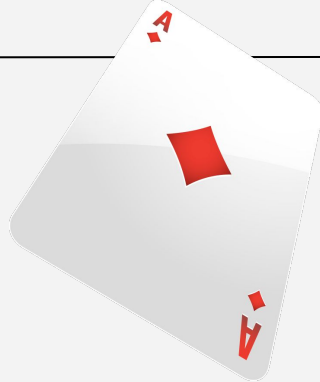
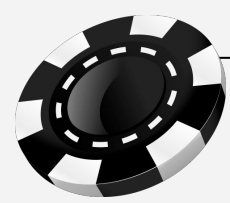
Hit = total < 16



HEAVY HITTER

Hit = total < 18





30,000

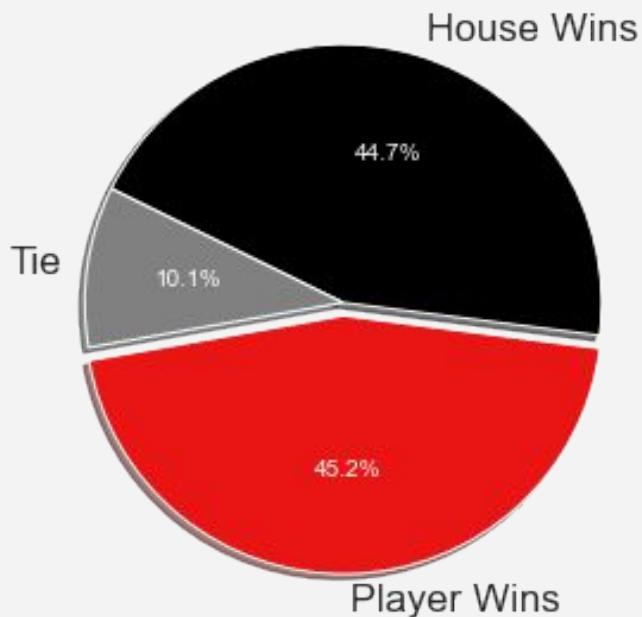
Rounds of Blackjack - 10,000/strategy



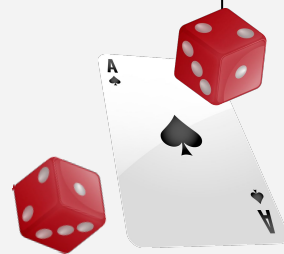


CONVENTIONAL RESULTS

Conventional Hitting Strategy



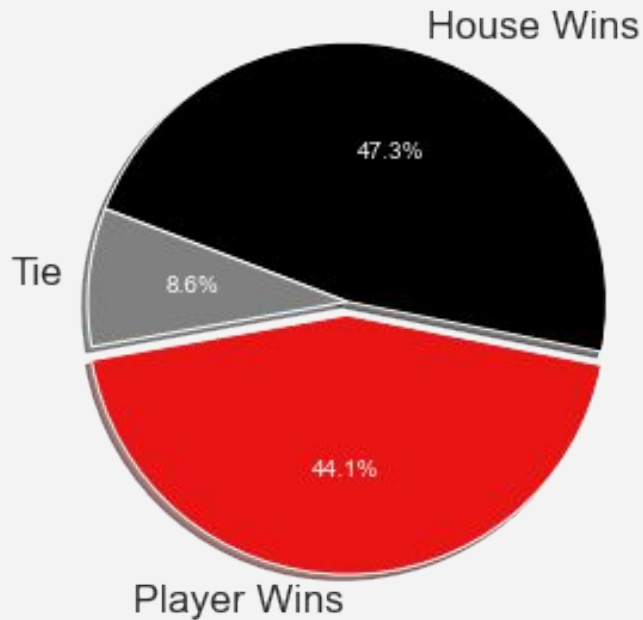
| Player Wins | House Wins | Tie |
|-------------|------------|--------|
| 4,520 | 4,475 | 1005 |
| 45.20% | 44.75% | 10.05% |



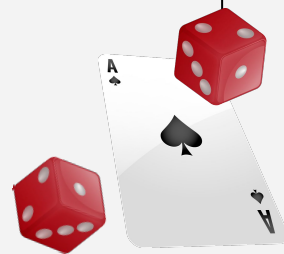


HEAVY HITTING RESULTS

Heavy Hitting Strategy



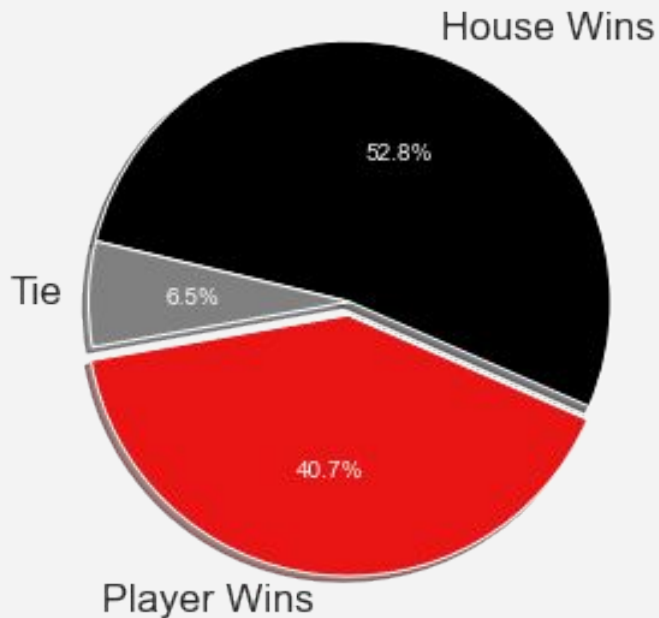
| Player Wins | House Wins | Tie |
|-------------|------------|-------|
| 4,413 | 4,726 | 861 |
| 44.13% | 47.26% | 8.61% |



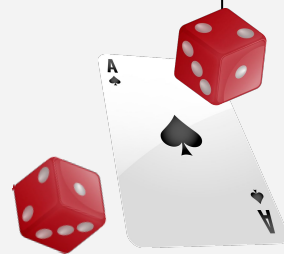


SAFE HITTING RESULTS

Safe Hitting Strategy

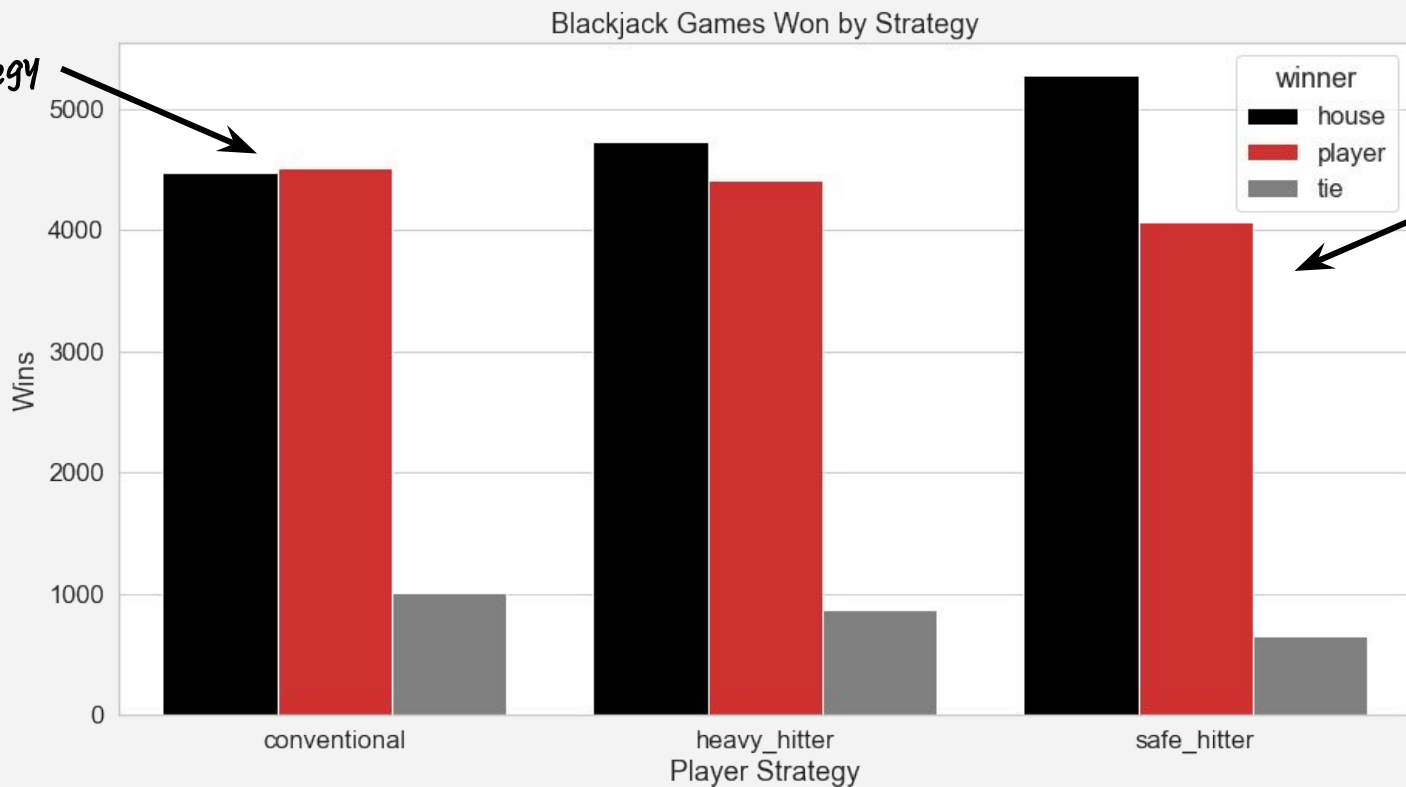


| Player Wins | House Wins | Tie |
|-------------|------------|-------|
| 4,067 | 5,281 | 652 |
| 40.67% | 52.81% | 6.52% |



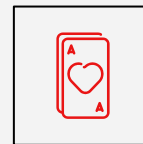
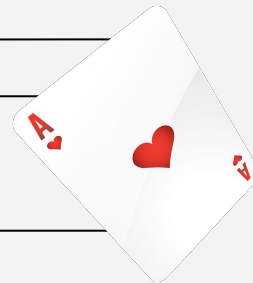
STRATEGY COMPARISON

*Best
strategy*



*Avoid this
strategy*

RECOMMENDATION



Conventional

Highly recommend

45%

Hands Won

Heavy Hitter

Recommend

44%

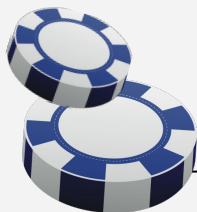
Hands Won

Safe Hitter

Not a safe bet!

41%

Hands Won



**WHAT WILL BE
YOUR
STRATEGY?**



THANKS!

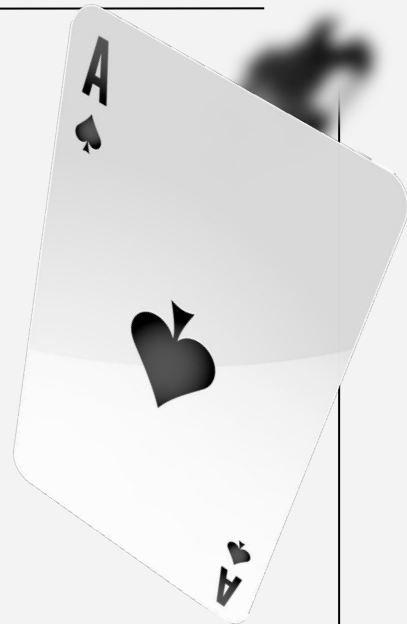
Does anyone have any questions?

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Appendix

