

CSI 102:

MiniProject 01

Slot Machine

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I certify that this lab report is entirely my own work.

Introduction

In this mini project, the purpose was to create a simple slot machine game using Python. The program needed to include variables, loops, conditionals, lists, functions, and file handling. The player starts with a certain amount of money and can add money to the machine, change the bet, play the game, and cash out.

Methods

I created variables for the player's balance, the machine's balance, and the current bet. I also made a list of symbols for the slot machine reels. The program uses functions to organize the code, such as `add_money()`, `change_bet()`, `play_game()`, and `cash_out_and_quit()`.

A while loop runs the main menu so the player can choose what to do. The `random.choice()` command is used to pick three symbols for the reels when the player chooses to play. The program checks how many symbols match and gives the correct payout.

When the player cashes out, the final balances are saved to a text file called `slot_results.txt`.

Results

```
Welcome to Midnight Sunshine Slots!
Matching two of a kind will win you 2X your bet!
Matching three of a kind will win you 5X your bet!
The current bet is $ 1.0
Good luck!

Your balance: $ 100.0 Machine's balance: $ 0.0 Current bet: $ 1.0
What would you like to do?
1. Add money to the machine
2. Change your bet amount
3. Play the game
4. Cash out and quit
Enter your choice: 1
```

Discussion

This lab helped me review how loops, conditions, and functions work together in Python. It also gave me a better understanding of how to use user input to control a program in real time. The player movement task showed how logic can be applied to control position within limits, while the score calculation task showed how to perform different operations based on user choices. Both activities connected what I've learned in class to how programs can respond to player actions, similar to what happens in simple games.

Challenges

The hardest part was keeping track of the balances and making sure the program used the right variables when adding or subtracting money. I also learned that small mistakes in variable names can cause logic errors.

Conclusion

This project shows how simple games can be made using basic programming concepts. It helped me understand how loops, lists, and conditionals can all work together in one program. The program runs correctly and met all the requirements.

Appendix

Files included: slotMachine.py