

Chapter 6 Wizard Spellbook

Time required: 120 minutes

- Comment each line of code as shown in the tutorials and other code examples.
- Follow all directions carefully and accurately.
- Think of the directions as minimum requirements.

Pseudocode

1. Write pseudocode or TODO for the exercise
2. Submit with the assignment

Requirements

Objective:

Create a Python program that simulates a wizard's spellbook using dictionaries. The spellbook will store magical spells and their humorous effects. Users can interact with the spellbook to cast spells, add new ones, and explore magical chaos!

Each menu item should be a separate function.

1. **Create a dictionary** called `spellbook` where:
 - **Keys** are spell names (e.g., "zap", "fluffify", "invisibloop").
 - **Values** are silly spell effects (e.g., "Turns socks into spaghetti", "Makes your voice sound like a duck").
2. **Display a menu** with the following options:
 - View all spells
 - Cast a spell
 - Add a new spell
 - Exit the spellbook
3. **Casting a spell:**
 - Ask the user for a spell name.
 - If it exists, print the spell effect.

4. **Adding a spell:**

- Ask the user for a new spell name and its effect.
- Add it to the dictionary.

5. **Viewing all spells:**

- Print all spell names and their effects in a fun, readable format.

Bonus Challenges:

- Add random magical sound effects or emojis when casting spells.
- Save the spellbook to a file so it remembers spells between runs.
- Add a “mystery spell” that does something random from the spellbook.

Example run:

```
Wizard Spellbook Menu:
1. View all spells
2. Cast a spell
3. Add a new spell
5. Exit
Choose an option (1-5): 1

Your Spellbook:
zap: Turns socks into spaghetti
fluffify: Makes your voice sound like a duck
invisibloop: Makes you invisible, but only to squirrels
giggleblast: Causes uncontrollable laughter for 3 minutes
snorestorm: Summons a cloud that snores loudly

Wizard Spellbook Menu:
1. View all spells
2. Cast a spell
3. Add a new spell
5. Exit
Choose an option (1-5): 2
Enter the spell name to cast: fluffify

Casting 'fluffify'. . .
Effect: Makes your voice sound like a duck

Wizard Spellbook Menu:
1. View all spells
2. Cast a spell
3. Add a new spell
5. Exit
Choose an option (1-5): 3
Enter the new spell name: frazzle
Enter the spell's effect: make your hair look electric
Spell 'frazzle' added to your spellbook!

Wizard Spellbook Menu:
1. View all spells
2. Cast a spell
3. Add a new spell
5. Exit
Choose an option (1-5): 5
Farewell, wizard! May your spells be ever silly.
```

Assignment Submission

1. Attach the pseudocode.
2. Attach the program files.

3. Attach screenshots showing the successful operation of the program.
4. Submit in Blackboard.