



PYTHON CODING GAMES

by

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A thick black L-shaped frame is positioned on the left and bottom edges of the slide, framing the central text.

PROJECT OVERVIEW

This project includes several interactive Python games designed to test programming skills and logic.



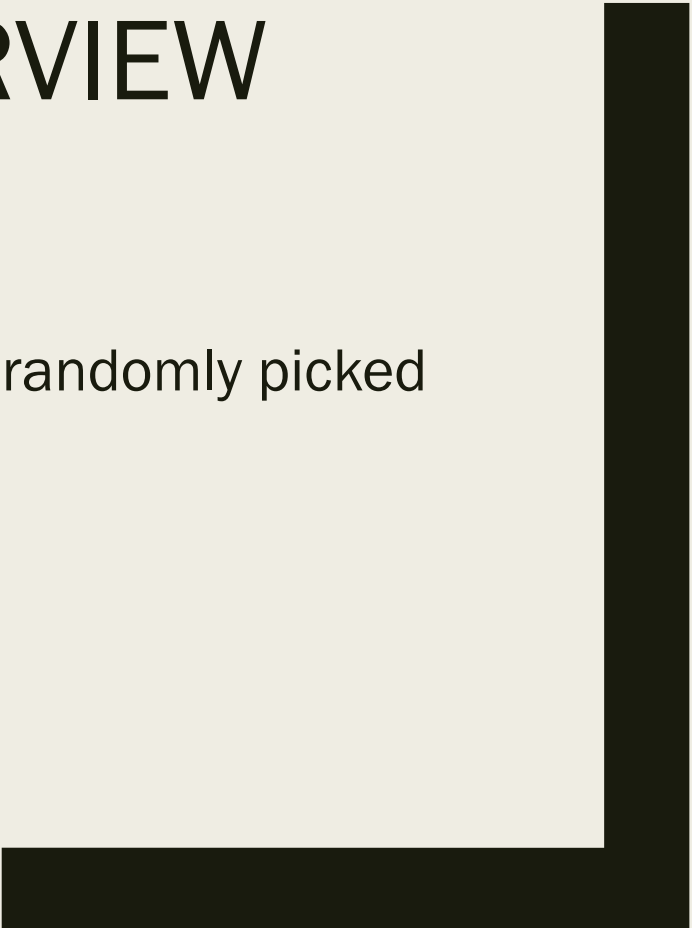
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A thick black L-shaped bar in the top-left corner, consisting of a horizontal segment and a vertical segment meeting at a right angle.

RIDDLE PUZZLE - OVERVIEW

A game that challenges players to solve riddles randomly picked from a set list.

A thick black L-shaped bar in the bottom-right corner, consisting of a horizontal segment and a vertical segment meeting at a right angle.

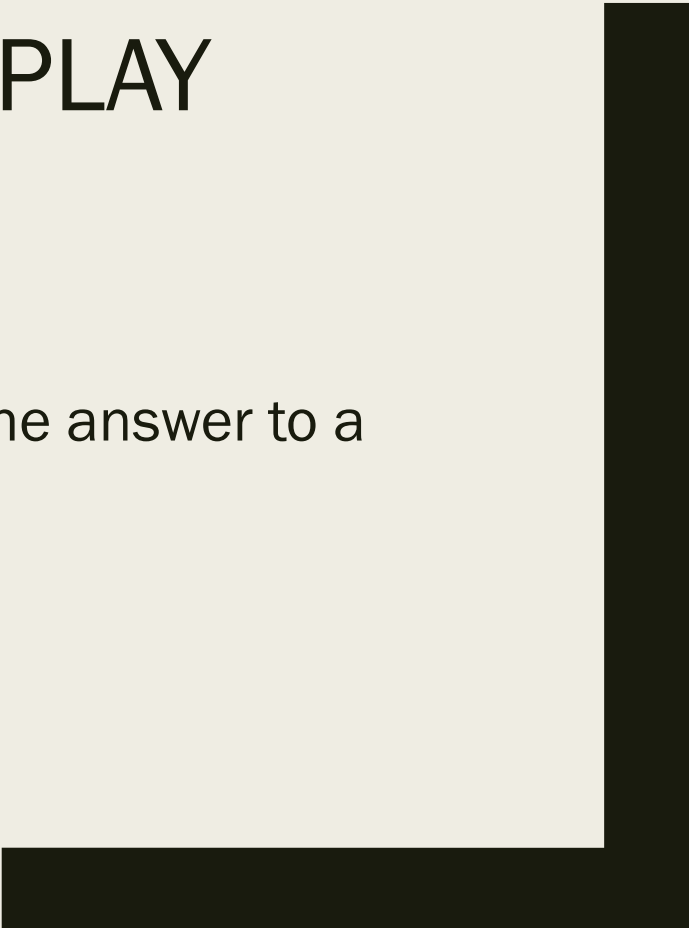
RIDDLE PUZZLE - CODE SNIPPET (CODE)

```
def get_riddle():  
    riddles = {  
        "I speak without a mouth and hear without ears. I have no  
body, but I come alive with wind. What am I?": "Echo",  
        "I am not alive, but I grow; I don't have lungs, but I need air.  
What am I?": "Fire"  
    }  
    question, answer = random.choice(list(riddles.items()))  
    return question, answer
```



RIDDLE PUZZLE - GAMEPLAY EXAMPLE

Example of gameplay where the user guesses the answer to a displayed riddle.





ARITHMETIC PUZZLE - OVERVIEW

A game that presents random arithmetic problems to solve.



ARITHMETIC PUZZLE - CODE SNIPPET

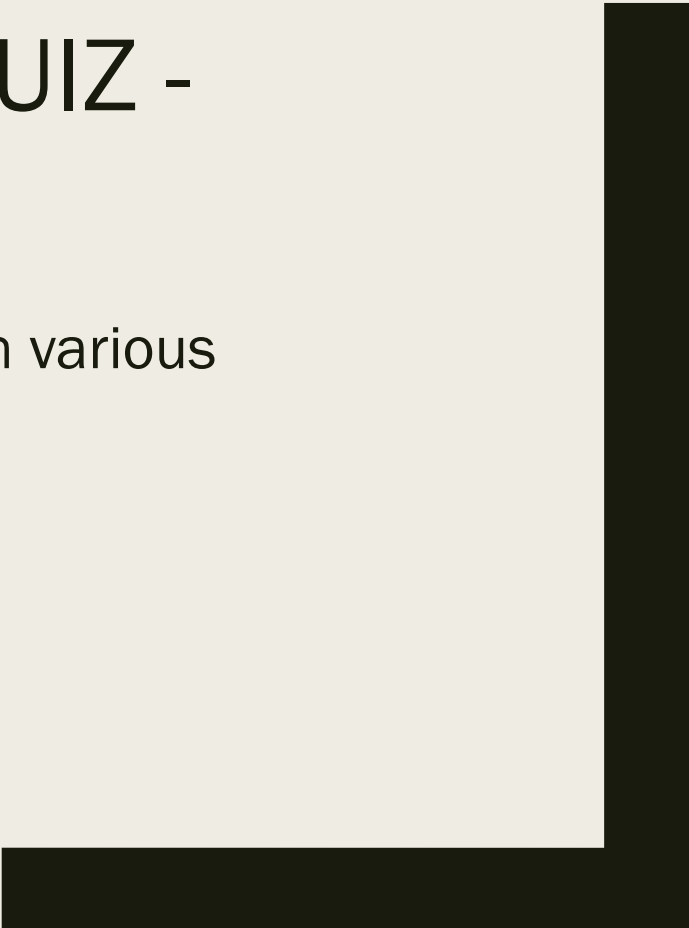
(CODE)

```
import random
def generate_arithmetic():
    num1 = random.randint(1, 20)
    num2 = random.randint(1, 20)
    operation = random.choice(['+', '-', '*', '/'])
    question = f"{num1} {operation} {num2}"
    correct_answer = eval(question)
    return question, correct_answer
```




GENERAL KNOWLEDGE QUIZ - OVERVIEW

A quiz game that tests the user's knowledge in various categories.



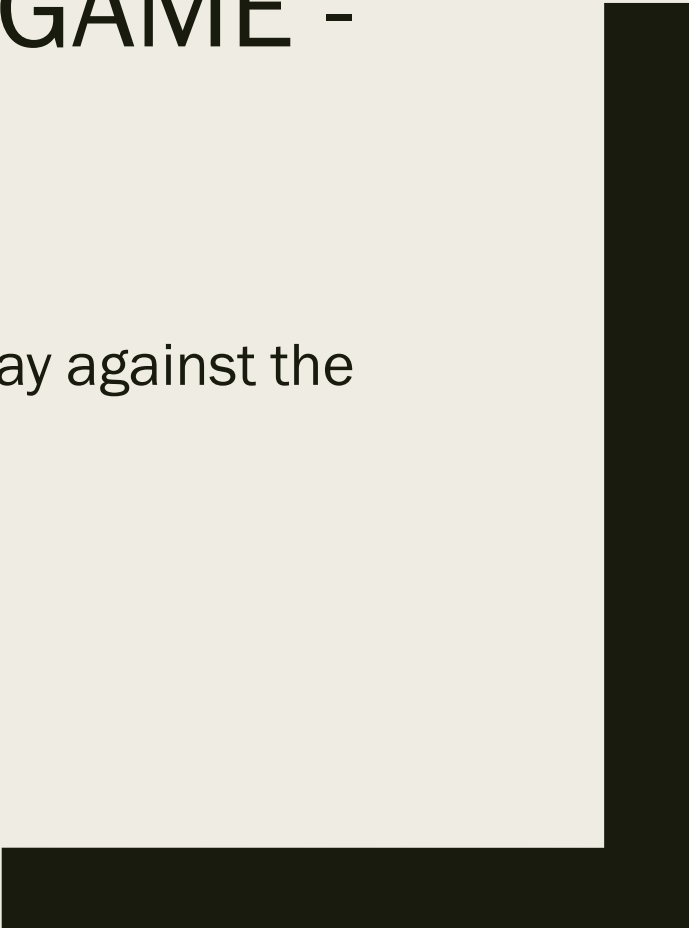
GENERAL KNOWLEDGE QUIZ - CODE SNIPPET (CODE)

```
def quiz_question(category):  
    questions = {  
        'Science': [("What is the chemical symbol for water?",  
"H2O")],  
        'Math': [("What is the square root of 16?", "4")]  
    }  
    return random.choice(questions[category])
```



ROCK-PAPER-SCISSORS GAME - OVERVIEW

A traditional game implemented in Python to play against the computer or another user.



ROCK-PAPER-SCISSORS GAME - CODE SNIPPET (CODE)

```
def rock_paper_scissors(user_choice, computer_choice):  
    rules = {'rock': 'scissors', 'scissors': 'paper', 'paper': 'rock'}  
    if user_choice == computer_choice:  
        return 'Tie'  
    elif rules[user_choice] == computer_choice:  
        return 'User wins'  
    else:  
        return 'Computer wins'
```



WORD GUESSING GAME - OVERVIEW

A game where users guess a secret word with limited clues.



WORD GUESSING GAME - CODE SNIPPET (CODE)

```
def guess_letter(word, guesses):  
    output = "".join([char if char in guesses else '_' for char in word])  
    return output
```

THANK YOU

