Carmen Mendoza

Module 3.2

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# 10/31/2024

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"""Cho-Han, by Al Sweigart al@inventwithpython.com

The traditional Japanese dice game of even-odd.

View this code athttps://nostarch.com/big-book-small-python-projects

Tags: short, beginner, game"""

import random, sys

JAPANESE\_NUMBERS = {1: 'ICHI', 2: 'NI', 3: 'SAN',

4: 'SHI', 5: 'GO', 6: 'ROKU'}

print('''Cho-Han, by Al Sweigart al@inventwithpython.com

In this traditional Japanese dice game, two dice are rolled in a bamboo

cup by the dealer sitting on the floor. The player must guess if the

dice total to an even (cho) or odd (han) number.

\*\*Special Bonus:\*\* If you roll a 2 or a 7, you'll get a 10 mon bonus!

''')

purse = 5000

while True: # Main game loop.

# Place your bet:

initials = input("Enter your initials: ")

print(f'{initials}: You have {purse} mon. How much do you bet? (or QUIT)')

while True:

pot = input('> ')

if pot.upper() == 'QUIT':

print('Thanks for playing!')

sys.exit()

elif not pot.isdecimal():

print('Please enter a number.')

elif int(pot) > purse:

print('You do not have enough to make that bet.')

else:

# This is a valid bet.

pot = int(pot) # Convert pot to an integer.

break # Exit the loop once a valid bet is placed.

# Roll the dice.

dice1 = random.randint(1, 6)

dice2 = random.randint(1, 6)

total = dice1 + dice2

print('The dealer swirls the cup and you hear the rattle of dice.')

print('The dealer slams the cup on the floor, still covering the')

print('dice and asks for your bet.')

print()

print(' CHO (even) or HAN (odd)?')

# Let the player bet cho or han:

while True:

bet = input('> ').upper()

if bet != 'CHO' and bet != 'HAN':

print('Please enter either "CHO" or "HAN".')

continue

else:

break

# Reveal the dice results:

print('The dealer lifts the cup to reveal:')

print(' ', JAPANESE\_NUMBERS[dice1], '-', JAPANESE\_NUMBERS[dice2])

print(' ', dice1, '-', dice2)

# Determine if the player won:

rollIsEven = (dice1 + dice2) % 2 == 0

if rollIsEven:

correctBet = 'CHO'

else:

correctBet = 'HAN'

playerWon = bet == correctBet

# Apply bonus if necessary

if total == 2 or total == 7:

print(f'You rolled a {total}! You get a 10 mon bonus!')

purse += 10

# Display the bet results:

if playerWon:

print('You won! You take', pot, 'mon.')

purse = purse + pot # Add the pot from player's purse.

print(f'The house collects a {pot // 12} mon fee.')

purse = purse - (pot // 12) # The house fee is 12%.

else:

purse = purse - pot # Subtract the pot from player's purse.

print('You lost!')

# Check if the player has run out of money:

if purse == 0:

print('You have run out of money!')

print('Thanks for playing!')

sys.exit()



