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June 4,2025

Assignment 3.2

CSD-325 Advanced Python

**Code:**

*"""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'}

#Add notice of bonus to the program introduction

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. If the dice total is 2 or 7, you receive a 10 mon bonus!

''')

purse = 5000

while True: # Main game loop.

# Place your bet:

print('You have', purse, 'mon. How much do you bet? (or QUIT)')

while True:

pot = input('JSA: ') # add my initials to input prompt

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)

roll\_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('JSA: ').upper() # add my initials to input prompt

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)

# Check for bonus:

if roll\_total == 2 or roll\_total == 7:

print(f'The dice total is {roll\_total}! You receive a 10 mon bonus!')

purse += 10

# Determine if the player won:

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

if rollIsEven:

correctBet = 'CHO'

else:

correctBet = 'HAN'

playerWon = bet == correctBet

# Display the bet results:

if playerWon:

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

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

# Change the house percentage from 10% to 12%

print('The house collects a', pot \* 0.12, 'mon fee.') # 12% fee (100/12 = 8.33,so rounding for int = pot // 8)

purse = purse - (pot \* 0.12) # 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()

**Screenshots: A screenshot of a computer program

AI-generated content may be incorrect.**

**A screenshot of a computer program

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.**