**Week 2 Module 3.2 Assignment CHO HAN Program**

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Module 3.2 Assignment CHO HAN Program

Cho/Han Modified project

Results Document

Original Program

Module 3.2 Assignment CHO HAN Brownfield + Flowchart

# Juan Macias Vasquez

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# Module 3.2 chohan\_JCMV

"""Cho-Han Modified, by Juan Carlos Macias Vasquez

Modified version with 12% house fee and 10 mon bonus on rolling 2 or 7.

"""

import random, sys

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

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

print('''Cho-Han, Modified by Juan Carlos Macias Vasquez

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 roll totals 2 or 7, you get a 10 mon bonus!\*\*

''')

purse = 5000

while True:

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

while True:

pot = input('JCMV: ')

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:

pot = int(pot)

break

# 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 and asks for your bet.')

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

while True:

bet = input('JCMV: ').upper()

if bet not in ('CHO', 'HAN'):

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

else:

break

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

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

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

# Determine CHO or HAN

rollIsEven = total % 2 == 0

correctBet = 'CHO' if rollIsEven else 'HAN'

playerWon = bet == correctBet

# Apply bonus if total is 2 or 7

if total == 2 or total == 7:

print(f"You rolled a total of {total}! You get a 10 mon bonus.")

purse += 10

if playerWon:

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

purse += pot

fee = int(pot \* 0.12) # 12% house cut

print('The house collects a', fee, 'mon fee.')

purse -= fee

else:

purse -= pot

print('You lost!')

if purse <= 0:

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

print('Thanks for playing!')

sys.exit()

pictures of code running

