Number guessing

import random

import time

def introduction():

print("Welcome to the Number Guessing Game!")

time.sleep(1)

print("What's your name?")

name = input("Enter your name: ")

print(f"Hello, {name}! I'm thinking of a number between 1 and 200.")

time.sleep(0.5)

print("Try to guess it!")

return name

def pick\_number(name):

number = random.randint(1, 200)

attempts = 0

max\_attempts = 6

while attempts < max\_attempts:

guess = input("Enter your guess: ")

try:

guess = int(guess)

attempts += 1

if guess < 1 or guess > 200:

print("Oops! Your guess should be between 1 and 200.")

elif guess < number:

print("Too low! Try again.")

elif guess > number:

print("Too high! Try again.")

else:

print(f"Congratulations, {name}! You've guessed the number {number} in {attempts} attempts!")

break

except ValueError:

print("Please enter a valid number.")

if attempts == max\_attempts:

print(f"Sorry, {name}! You've exhausted all your attempts. The number I was thinking of was {number}.")

def play\_again():

while True:

again = input("Do you want to play again? (yes/no): ").lower()

if again in ('yes', 'no'):

return again == 'yes'

else:

print("Please enter 'yes' or 'no'.")

# Main game loop

while True:

name = introduction()

pick\_number(name)

if not play\_again():

print("Thanks for playing! Goodbye!")

break

Password

import random

def generatePassword(pwlength):

alphabet = "abcdefghijklmnopqrstuvwxyz"

passwords = []

for i in pwlength:

password = ""

for j in range(i):

next\_letter\_index = random.randrange(len(alphabet))

password = password + alphabet[next\_letter\_index]

password = replaceWithNumber(password)

password = replaceWithUppercaseLetter(password)

passwords.append(password)

return passwords

def replaceWithNumber(pword):

for i in range(random.randrange(1,3)):

replace\_index = random.randrange(len(pword)//2)

pword = pword[0:replace\_index] + str(random.randrange(10)) + pword[replace\_index+1:]

return pword

def replaceWithUppercaseLetter(pword):

for i in range(random.randrange(1,3)):

replace\_index = random.randrange(len(pword)//2,len(pword))

pword = pword[0:replace\_index] + pword[replace\_index].upper() + pword[replace\_index+1:]

return pword

def main():

numPasswords = int(input("How many passwords do you want to generate? "))

print("Generating " +str(numPasswords)+" passwords")

passwordLengths = []

print("Minimum length of password should be 3")

for i in range(numPasswords):

length = int(input("Enter the length of Password #" + str(i+1) + " "))

if length<3:

length = 3

passwordLengths.append(length)

Password = generatePassword(passwordLengths)

for i in range(numPasswords):

print ("Password #"+str(i+1)+" = " + Password[i])

main()