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Project #10

Due: 03/15/19

CODE:

#Import random library

import random

#Create a main function

def main():

#Create a sub function that contains the main game

def playguessinggame():

#Generate a random number from 1 through 50

random\_number = random.randint(1,50)

TBD = 1

#Create an empty list that will contain the # of guesses

guessList = []

#Add # of guesses to list

guessList.append(TBD)

#Ask users to guess the number and assign guess to variable 'guess'

guess = int(input("A random number in the range of 1 to 50 has been generated. \nGuess the random number. Enter '-1' at any time to exit the game. \n: "))

#Use while loop to give hints if guess is incorrect

while guess != random\_number:

#Use if statement to give hints if guess is more or equal to 0

if guess >= 0:

#If guess is too high, inform users

if guess > random\_number:

#Allow users to try again

guess = int(input("Too high, try again: "))

#if user didn't guess correct, add guess to list of guesses

if guess not in guessList:

guessList.append(TBD)

#If guess is too low, inform users

elif guess < random\_number:

#Allow users to try again

guess = int(input("Too low, try again: "))

#if user didn't guess correct, add guess to list of guesses

if guess not in guessList:

guessList.append(TBD)

#If guess is correct, inform users

if guess == random\_number:

print("Congratulations! You guessed the number.")

#Print the number of guesses it took the users to guess correctly

print("It took you %d guesses to get it correct." %(len(guessList)))

print("")

#Repeat the game

playguessinggame()

#if user didn't guess correct, add guess to list of guesses

if TBD not in guessList:

guessList.append(TBD)

#If user enters -1, end game

if guess == -1:

print("The game has ended.")

#Call function that runs the game

playguessinggame()

#Cal main function

main()

OUTPUT:  
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

RESTART: C:\Users\Nabiha\Documents\CECS 174\Labs (Cecs 174)\project 10 , pt2.py

A random number in the range of 1 to 50 has been generated.

Guess the random number. Enter '-1' at any time to exit the game.

: 30

Too low, try again: 40

Too low, try again: 45

Too high, try again: 44

Too high, try again: 43

Too high, try again: 42

Congratulations! You guessed the number.

It took you 6 guesses to get it correct.

A random number in the range of 1 to 50 has been generated.

Guess the random number. Enter '-1' at any time to exit the game.

: 26

Too high, try again: 23

Too high, try again: -1

>>>

RESTART: C:\Users\Nabiha\Documents\CECS 174\Labs (Cecs 174)\project 10 , pt2.py

A random number in the range of 1 to 50 has been generated.

Guess the random number. Enter '-1' at any time to exit the game.

: 3

Too low, try again: 29

Too high, try again: 25

Too high, try again: 19

Too high, try again: 16

Too high, try again: 12

Too low, try again: 14

Too high, try again: 13

Congratulations! You guessed the number.

It took you 8 guesses to get it correct.

A random number in the range of 1 to 50 has been generated.

Guess the random number. Enter '-1' at any time to exit the game.

: -1

>>>