

Random Number Guessing Game

Problem

This program will be able to provide a guessing game, by using the if statements and functions, we will write a Python program that has four functions. With these functions, the program will be able to type a random number and the program will generate a random number if the user's number matches the program's randomly generated number it is display "You guessed correctly!" otherwise, it will display "Sorry, your guess is incorrect"

Analysis

Import random	This import gives the program access to the random library
Randint()	Used this method to select a random number from a specified range
Main()	Used this function to call the other three functions
generateNumber()	This function generates and returns a random number from the range of 1 to 100
inputUserGuess()	This function gets input from the user as a number
displayAnswer()	This function takes the randomly generated number and the user's input number to check if they match.
If, else statement	Statements are used to check whether the two numbers are matched. If they are then it will output ("You guessed correctly1"). Otherwise, it will output ("Sorry, your guess is incorrect")
randomNumber	I chose this variable to get the random number and return it to the function
guessNumber	I chose this variable to get the user's number input, it is also easier to memorize and understand
return ()	I chose to use this statement to return all of the numbers gotten from the "randomNumber" and "guessNumber" variable
str	To convert the "int" into a readable string.
int	To be able to input numbers into an input
input	To get a number from the user

Design

Program Start

#Declare the main function

def main():

 generateNumber()

 inputUserGuess()

 displayAnswer()

#to get a random number

def generateNumber():

 import random

 get randomNumber = random.randint(1 to 100)

 return randomNumber

#get a number from the user

def inputUserGuess():

 guessNumber = get integer input. Display "I am thinking of a number. What is the number? "

 return the guessNumber

#declare to display the answer

def displayAnswer (randomNumber, guessNumber):

 If randomNumber matches guessNumber then

 Display "You guessed correctly!"

 If not

 Display "Sorry, your guess is incorrect. I was thinking of " with str of randomNumber()

call main()

Implementation

I used a windows 11 Acer aspire laptop

I am using the word application to write the documentation

I used the python IDLE

Although before it was hard to use I have gotten used to the IDLE so there wasn't any unusual situation.