Day1

Print(“Hello World”)

#Fix the code below 👇

print("Day 1 - String Manipulation")

print('String Concatenation is done with the "+" sign.')

print('e.g. print("Hello " + "world")')

print("New lines can be created with a backslash and n.")

1.2 input()

print(“hello ” + input(“What is your name”))

Prints input first on screen

What is your name

User enter name : Anil

Final output printed: Hello Anil

1.3 input() exercise

Write a program that prints the number of characters in a user's name. You might need to Google for a function that calculates the length of a string.

Solution

print(len(input("Enter your name: \n")))

1.4 Variables

Instructions

Write a program that switches the values stored in the variables a and b.

**Warning.** Do not change the code on lines 1-4 and 12-18. Your program should work for different inputs. e.g. any value of a and b.

# 🚨 Don't change the code below 👇

a = input("a: ")

b = input("b: ")

# 🚨 Don't change the code above 👆

####################################

#Write your code below this line 👇

c = a

a = b

b = c

#Write your code above this line 👆

####################################

# 🚨 Don't change the code below 👇

print("a: " + a)

print("b: " + b)

==

Day 1 Project

#1. Create a greeting for your program.

print("Welcome to Band Name Generator\n")

#2. Ask the user for the city that they grew up in.

city = input("Which city you were born in?:\n")

#3. Ask the user for the name of a pet.

pet = input("What's your pet name?\n")

#4. Combine the name of their city and pet and show them their band name.

print("Suggested band names :\n" + "1:" + city + pet + "Band\n"

+ "2:" + pet + city+"Band\n")

#5. Make sure the input cursor shows on a new line, see the example at:

# https://band-name-generator-end.appbrewery.repl.run/

=====

Day2

2.1

## Data Types

# Instructions

Write a program that adds the digits in a 2 digit number. e.g. if the input was 35, then the output should be 3 + 5 = 8

# 🚨 Don't change the code below 👇

two\_digit\_number = input("Type a two digit number: ")

# 🚨 Don't change the code above 👆

####################################

#Write your code below this line 👇

first\_digit = two\_digit\_number[0]

second\_digit=two\_digit\_number[1]

result=int(first\_digit)+int(second\_digit)

print(result)

2.2 BMI Calculator

# 🚨 Don't change the code below 👇

height = input("enter your height in m: ")

# height is in meter so 174 cm is 1.74

weight = input("enter your weight in kg: ")

#

# 🚨 Don't change the code above 👆

#Write your code below this line 👇

BMI = float(weight)/(float(height)\*\*2)

bmi\_as\_int = int(BMI)

print(bmi\_as\_int)

==

Day 2.3 Life in weeks

# 🚨 Don't change the code below 👇

age = input("What is your current age?")

# 🚨 Don't change the code above 👆

#Write your code below this line 👇

age\_as\_int = int(age)

years\_remaining = 90 - age\_as\_int

months\_remaining = years\_remaining\*12

weeks\_remaining = years\_remaining\*52

result =f"You have {years\_remaining} Years {months\_remaining} months {weeks\_remaining} weeks"

print(result)

===

Day 2.4

Tip calculator

total\_bill = float(input("How much is total bill: "))

tip\_percent = int(input("How much tip you wish to give "))

bill\_with\_tip = total\_bill+ (total\_bill)\*((tip\_percent)/100)

no\_of\_people = int(input("How many people you want to divide the bill: "))

bill\_contri\_formated = "{:.2f}".format(bill\_contri)

print(f"each person need to pay: {bill\_contri\_formated}")

#If the bill was $150.00, split between 5 people, with 12% tip.

#Each person should pay (150.00 / 5) \* 1.12 = 33.6

#Format the result to 2 decimal places = 33.60

#Tip: There are 2 ways to round a number. You might have to do some Googling to solve this.💪

#HINT 1: https://www.google.com/search?q=how+to+round+number+to+2+decimal+places+python&oq=how+to+round+number+to+2+decimal

#HINT 2: https://www.kite.com/python/answers/how-to-limit-a-float-to-two-decimal-places-in-python

Day 3

3.1 Logical Operators

# 🚨 Don't change the code below 👇

number = int(input("Which number do you want to check? "))

# 🚨 Don't change the code above 👆

#Write your code below this line 👇

result = number%2

if result==0:

print("Number is even")

else:

print("Number is odd")

====

check the cod running

=

3.2 BMI Advanced

# 🚨 Don't change the code below 👇

height = float(input("enter your height in m: "))

weight = float(input("enter your weight in kg: "))

# 🚨 Don't change the code above 👆

#Write your code below this line 👇

bmi = round(weight / height \*\* 2)

if bmi < 18.5:

print(f"Your BMI is {bmi}, you are underweight.")

elif bmi < 25:

print(f"Your BMI is {bmi}, you have a normal weight.")

elif bmi < 30:

print(f"Your BMI is {bmi}, you are slightly overweight.")

elif bmi < 35:

print(f"Your BMI is {bmi}, you are obese.")

else:

print(f"Your BMI is {bmi}, you are clinically obese.")

===

1. If the year is evenly divisible by 4, go to step 2. Otherwise, go to step 5.
2. If the year is evenly divisible by 100, go to step 3. Otherwise, go to step 4.
3. If the year is evenly divisible by 400, go to step 4. Otherwise, go to step 5.
4. The year is a leap year (it has 366 days).
5. The year is not a leap year (it has 365 days).

=IF(OR(MOD(A1,400)=0,AND(MOD(A1,4)=0,MOD(A1,100)<>0)),"Leap Year", "NOT a Leap Year")

# 🚨 Don't change the code below 👇

year = int(input("Which year do you want to check? "))

# 🚨 Don't change the code above 👆

#Write your code below this line 👇

Y = year

if Y%4 !=0:

print(f"{Y} is not leap year1")

elif Y%100 != 0 and Y%4 ==0:

print(f"{Y} is leap year2")

elif Y%4 ==0 and Y%100 == 0 and Y%400==0:

    print(f"{Y} is leap year3")

Refer the diagram-flowchart screenshot-day3-leapyear

==

# 🚨 Don't change the code below 👇

year = int(input("Which year do you want to check? "))

# 🚨 Don't change the code above 👆

#Write your code below this line 👇

Y = year

if Y%4 ==0:

  if Y%100 == 0:

    if Y%400 ==0:

      print(f"{Y} is leap year")

    else:

     print(f"{Y} is not leap year")

  else:

    print(f"{Y} is leap year")

else:

print(f"{Y} is not leap year")

===

Love calculator- Day 3- 36

# 🚨 Don't change the code below 👇

print("Welcome to the Love Calculator!")

name1 = input("What is your name? \n")

name2 = input("What is their name? \n")

# 🚨 Don't change the code above 👆

#Write your code below this line 👇

concat\_strings= name1+name2

name\_lower = concat\_strings.lower()

t=name\_lower.count("t")

r=name\_lower.count("r")

u=name\_lower.count("u")

e=name\_lower.count("e")

l=name\_lower.count("l")

o=name\_lower.count("o")

v=name\_lower.count("v")

e=name\_lower.count("e")

count1 = t+r+u+e+l+o+v+e

print(f"your love score is {l}")

print(f"your love score is {count1}")

==

37 Treasure Island

print('''

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''')

print("Welcome to Treasure Island.")

print("Your mission is to find the treasure.")

choice1 = input('You\'re at a cross road. Where do you want to go? Type "left" or "right" \n').lower()

if choice1 == "left":

choice2 = input('You\'ve come to a lake. There is an island in the middle of the lake. Type "wait" to wait for a boat. Type "swim" to swim across. \n').lower()

if choice2 == "wait":

choice3 = input("You arrive at the island unharmed. There is a house with 3 doors. One red, one yellow and one blue. Which colour do you choose? \n").lower()

if choice3 == "red":

print("It's a room full of fire. Game Over.")

elif choice3 == "yellow":

print("You found the treasure! You Win!")

elif choice3 == "blue":

print("You enter a room of beasts. Game Over.")

else:

print("You chose a door that doesn't exist. Game Over.")

else:

print("You get attacked by an angry trout. Game Over.")

else:

print("You fell into a hole. Game Over.")

===

another way

print("Welcome to Treasure Island.")

print("Your mission is to find the treasure.")

#https://www.draw.io/?lightbox=1&highlight=0000ff&edit=\_blank&layers=1&nav=1&title=Treasure%20Island%20Conditional.drawio#Uhttps%3A%2F%2Fdrive.google.com%2Fuc%3Fid%3D1oDe4ehjWZipYRsVfeAx2HyB7LCQ8\_Fvi%26export%3Ddownload

direction = (input("Do you want to go left ot right? left / right :")).lower()

if direction != str("left"):

print("You fall into a hole. GAME OVER!")

else:

direction=(input("Do you want to swim or wait? swim /wait :")).lower()

if direction != str("wait"):

print("You are attacked by trout. GAME OVER!")

else:

direction = (input("which door you want to go in? Red / Blue/ Yellow :")).lower()

if direction == str("red"):

print("You got burned by fire, GAME OVER!")

elif direction == str("blue"):

print("You got burned by fire, GAME OVER!")

elif direction == str("yellow"):

print("You Win!")

else:

print("GAME OVER!")

==

Day 4

4 List Randomizasions

4.1 Random person pay the bill from List

import random

# Split string method

names\_string = input("Give me everybody's names, separated by a comma. ")

names = names\_string.split(", ")

# 🚨 Don't change the code above 👆

#Write your code below this line 👇

names\_length = int(len(names))

random\_number = random.randint(0,names\_length-1)

selected= names[random\_number]

print(f"{selected} is going to buy milk today")

==

Treasure Map difficulty - High

# 🚨 Don't change the code below 👇

row1 = ["⬜️","⬜️","⬜️"]

row2 = ["⬜️","⬜️","⬜️"]

row3 = ["⬜️","⬜️","⬜️"]

map = [row1, row2, row3]

print(f"{row1}\n{row2}\n{row3}")

position = input("Where do you want to put the treasure? ")

# 🚨 Don't change the code above 👆

12

#Write your code below this row 👇

horizontal = int(position[0])

vertical=int(position[1])

selected\_row = map[vertical-1]

selected\_row[horizontal-1] = "X"

#Write your code above this row 👆

# 🚨 Don't change the code below 👇

print(f"{row1}\n{row2}\n{row3}")

===

# 🚨 Don't change the code below 👇

row1 = ["⬜️","⬜️","⬜️"]

row2 = ["⬜️","⬜️","⬜️"]

row3 = ["⬜️","⬜️","⬜️"]

map = [row1, row2, row3]

print(f"{row1}\n{row2}\n{row3}")

position = input("Where do you want to put the treasure? ")

# 12 - 1st column and 2nd row

# 🚨 Don't change the code above 👆

#Write your code below this row 👇

horizontal = int(position[0]) #column1

vertical=int(position[1]) #row2

print(horizontal) #1st column

print(vertical) #2nd row

selected\_row = map[vertical-1] #2-1=1

# 1 means second row gets selected-vertically

selected\_row[horizontal-1] = "X" #1-1=0

# 1 means first column gets selected-horizontally

#Write your code above this row 👆

# 🚨 Don't change the code below 👇

print(f"{row1}\n{row2}\n{row3}")

===

Game

import random

rock = '''

\_\_\_\_\_\_\_

---' \_\_\_\_)

(\_\_\_\_\_)

(\_\_\_\_\_)

(\_\_\_\_)

---.\_\_(\_\_\_)

'''

paper = '''

\_\_\_\_\_\_\_

---' \_\_\_\_)\_\_\_\_

\_\_\_\_\_\_)

\_\_\_\_\_\_\_)

\_\_\_\_\_\_\_)

---.\_\_\_\_\_\_\_\_\_\_)

'''

scissors = '''

\_\_\_\_\_\_\_

---' \_\_\_\_)\_\_\_\_

\_\_\_\_\_\_)

\_\_\_\_\_\_\_\_\_\_)

(\_\_\_\_)

---.\_\_(\_\_\_)

'''

game\_images = [rock, paper, scissors]

user\_choice = int(input("What do you choose? Type 0 for Rock, 1 for Paper or 2 for Scissors.\n"))

print(game\_images[user\_choice])

computer\_choice = random.randint(0, 2)

print("Computer chose:")

print(game\_images[computer\_choice])

if user\_choice >= 3 or user\_choice < 0:

print("You typed an invalid number, you lose!")

elif user\_choice == 0 and computer\_choice == 2:

print("You win!")

elif computer\_choice == 0 and user\_choice == 2:

print("You lose")

elif computer\_choice > user\_choice:

print("You lose")

elif user\_choice > computer\_choice:

print("You win!")

elif computer\_choice == user\_choice:

print("It's a draw")

####### Debugging challenge: #########

#Try running this code and type 5.

#It will give you an IndexError and point to line 32 as the issue.

#But on line 38 we are trying to prevent a crash by detecting

#any numbers great than or equal to 3 or less than 0.

#So what's going on?

#Can you debug the code and fix it?

#Solution: https://repl.it/@appbrewery/rock-paper-scissors-debugged-end

==

Day5

5 Loops

fruits = {"Apple", "Mango", "Banana"}

for fruit in fruits:

print(fruit)

print(fruit + " Pie")

print(f"After for loop{fruits}")

===

>>> %Run loops.py

Apple

Apple Pie

Mango

Mango Pie

Banana

Banana Pie

After for loop{'Apple', 'Mango', 'Banana'}

===

5.1 Average Height

# 🚨 Don't change the code below 👇

student\_heights = input("Input a list of student heights ").split()

for n in range(0, len(student\_heights)):

student\_heights[n] = int(student\_heights[n])

# 🚨 Don't change the code above 👆

#Write your code below this row 👇

print(student\_heights)

total\_height=0

for height in student\_heights:

total\_height=height+total\_height

print(f"Total height: {total\_height}")

total\_students=0

for student in student\_heights:

total\_students = total\_students+1

print(f"Total number of students: {total\_students}")

Average = round(total\_height/total\_students)

print(f"Avergae Height is :{Average}")

====

5.2 High Score

# 🚨 Don't change the code below 👇

student\_scores = input("Input a list of student scores ").split()

for n in range(0, len(student\_scores)):

student\_scores[n] = int(student\_scores[n])

print(student\_scores)

# 🚨 Don't change the code above 👆

#Write your code below this row 👇

length = 0

for score\_length in student\_scores:

length = length+1

highest\_score = 0

for score in student\_scores:

if score > highest\_score:

highest\_score = score

print(f"highest score is: {highest\_score}")

===

#Write your code below this row 👇

# Add even number 1 to 100

#1st way

total1=0

for number1 in range(2,101,2):

print(number1) # 2 4 6 8

total1+=number1

print(total1)

#2nd way

total2=0

for number2 in range(1,101):

print(number2) # 1 2 3 4

if number2 % 2==0:

total2+=number2

print(total2)

== 5.4 Fizz Buzz exercise

# Divisible by 3 - Fizz, divisible by 5 - buzz

# divisible by both - FizzBuzz

# Note: div by 3 and 5 need to be added at start, as it should not overlap \*interview

#Write your code below this row 👇

for number in range(1,101):

if(number %3 ==0 and number % 5 == 0):

print("FizzBuzz")

elif(number % 5 == 0):

print("Buzz")

elif(number %3 ==0):

print("Fizz")

else:

print(number)

===

#Password Generator Project

import random

letters = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z', 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z']

numbers = ['0', '1', '2', '3', '4', '5', '6', '7', '8', '9']

symbols = ['!', '#', '$', '%', '&', '(', ')', '\*', '+']

print("Welcome to the PyPassword Generator!")

nr\_letters= int(input("How many letters would you like in your password?\n"))

nr\_symbols = int(input(f"How many symbols would you like?\n"))

nr\_numbers = int(input(f"How many numbers would you like?\n"))

#Eazy Level - Order not randomised:

#e.g. 4 letter, 2 symbol, 2 number = JduE&!91

# password = ""

# for char in range(1,nr\_letters+1):

# password += random.choice(letters)

# for char in range(1,nr\_symbols+1):

# password += random.choice(symbols)

# for char in range(1,nr\_numbers+1):

# password += random.choice(numbers)

# print(password)

#Hard Level - Order of characters randomised:

#e.g. 4 letter, 2 symbol, 2 number = g^2jk8&P

password\_list = []

for char in range(1,nr\_letters+1):

password\_list.append(random.choice(letters))

for char in range(1,nr\_symbols+1):

password\_list.append(random.choice(symbols))

for char in range(1,nr\_numbers+1):

password\_list.append(random.choice(numbers))

print(password\_list)

random.shuffle(password\_list)

print(password\_list)

password=''

for char in password\_list:

password+=char

print(f"Your Password is: {password}")

==

Day 6

6 Functions

https://reeborg.ca/reeborg.html?lang=en&mode=python&menu=worlds%2Fmenus%2Freeborg\_intro\_en.json&name=Alone&url=worlds%2Ftutorial\_en%2Falone.json

Hurdle1

def turn\_right():

turn\_left()

turn\_left()

turn\_left()

move()

turn\_left()

move()

turn\_right()

move()

turn\_right()

move()

turn\_left()

===

L2

def turn\_right():

turn\_left()

turn\_left()

turn\_left()

def jump():

move()

turn\_left()

move()

turn\_right()

move()

turn\_right()

move()

turn\_left()

===

L3

def turn\_right():

turn\_left()

turn\_left()

turn\_left()

def jump():

move()

turn\_left()

move()

turn\_right()

move()

turn\_right()

move()

turn\_left()

for step in range(6):

jump()

or

number\_of\_hurdles = 6

while number\_of\_hurdles > 0:

jump()

number\_of\_hurdles -= 1

print(number\_of\_hurdles)

===

while not at\_goal:

jump()

==

Day 7

Hangman Game

#Step 1

import random

word\_list = ["aardvark", "baboon", "camel"]

#TODO-1 - Randomly choose a word from the word\_list and assign it to a variable called chosen\_word.

word\_list\_len = len(word\_list)

chosen\_word = random.choice(word\_list)

print(f"Selected word: {chosen\_word}")

#TODO-2 - Ask the user to guess a letter and assign their answer to a variable called guess. Make guess lowercase.

guess = input("guess a letter: ").lower()

#TODO-3 - Check if the letter the user guessed (guess) is one of the letters in the chosen\_word.

for char in chosen\_word:

if(guess == char ):

print("Correct")

else:

print("Wrong")

====

#Step 2

import random

word\_list = ["aardvark", "baboon", "camel"]

chosen\_word = random.choice(word\_list)

word\_length = len(chosen\_word)

#Testing code

print(f'Pssst, the solution is {chosen\_word}.')

#TODO-1: - Create an empty List called display.

#For each letter in the chosen\_word, add a "\_" to 'display'.

#So if the chosen\_word was "apple", display should be ["\_", "\_", "\_", "\_", "\_"] with 5 "\_" representing each letter to guess.

display=[]

chosen\_word\_len = word\_length

# for \_ in range(chosen\_word)

for char in chosen\_word:

display += "\_"

print(display)

guess = input("Guess a letter: ").lower()

#TODO-2: - Loop through each position in the chosen\_word;

#If the letter at that position matches 'guess' then reveal that letter in the display at that position.

#e.g. If the user guessed "p" and the chosen word was "apple", then display should be ["\_", "p", "p", "\_", "\_"].

for position in range(word\_length):

letter = chosen\_word[position]

if letter == guess:

display[position]=letter

print(display)

#TODO-3: - Print 'display' and you should see the guessed letter in the correct position and every other letter replace with "\_".

#Hint - Don't worry about getting the user to guess the next letter. We'll tackle that in step 3.

====

Day 8

# Simple Function

def greet():

print("Hi Anil")

print("Good Morning")

print("How are you")

greet()

# Function that allows for input

def greet\_with\_name(name):

print("Hi "+ name)

print(f"Good Morning {name}")

print(f"How are you {name}")

greet\_with\_name("Angela")

===

#Simple Function

def greet():

print("Hello Angela")

print("How do you do Jack Bauer?")

print("Isn't the weather nice today?")

greet()

#Function that allows for input

#'name' is the parameter.

#'Jack Bauer' is the argument.

def greet\_with\_name(name):

print(f"Hello {name}")

print(f"How do you do {name}?")

greet\_with\_name("Jack Bauer")

#Functions with more than 1 input

def greet\_with(name, location):

print(f"Hello {name}")

print(f"What is it like in {location}?")

#Calling greet\_with() with Positional Arguments

greet\_with("Jack Bauer", "Nowhere")

#vs.

greet\_with("Nowhere", "Jack Bauer")

#Calling greet\_with() with Keyword Arguments

greet\_with(location="London", name="Angela")

==

#Write your code below this line 👇

import math

def paint\_calc(height, width, cover):

area = height \* width

number\_of\_cans = math.ceil(area / cover)

print(f"You will need {number\_of\_cans} cans")

#Write your code above this line 👆

# Define a function called paint\_calc() so that the code below works.

# 🚨 Don't change the code below 👇

test\_h = int(input("Height of wall: "))

test\_w = int(input("Width of wall: "))

coverage = 5

paint\_calc(height=test\_h, width=test\_w, cover=coverage)

==

Prime Number

# Prime Number -2,3,7,13, 17,19

#Write your code below this line 👇

def prime\_checker(number):

is\_prime = True

for i in range(2,number):

if number % i == 0:

# not prime

is\_prime = False

if is\_prime:

print(f"Given number {number} is prime number")

else:

print(f"Given number {number} is not prime number")

#Write your code above this line 👆

#Do NOT change any of the code below👇

n = int(input("Check this number: "))

prime\_checker(number=n)

====