PYTHON

1) TIP CALCULATOR

print("Welcome to the tip calculator!")

bill = float(input("what was the total bill? $"))

tip = int(input("what percentage tipwould you llike to give?10, 12, or 15?"))

people = int(input("how many people to split the bill?"))

tip\_as\_percent = tip /100

total\_tip\_amount = bill \* tip\_as\_percent

total\_bill = bill + total\_tip\_amount

bill\_per\_person = total\_bill / people

final\_amount = round(bill\_per\_person,2)

print(f"Each person should pay: ${final\_amount}")

2) BMI CALCULATOR

# Enter your height in meters e.g., 1.55

height = float(input())

# Enter your weight in kilograms e.g., 72

weight = int(input())

# 🚨 Don't change the code above 👆

#Write your code below this line 👇

height1 = float(height)

weight2 = int(weight)

height\_sq = (height1 \* height1)

bmi = weight/height\_sq

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.")

3) LEAP YEAR CALCULATION

# Which year do you want to check?

year = int(input())

# 🚨 Don't change the code above 👆

# Write your code below this line 👇

if year % 4 == 0:

if year % 100 != 0:

print("Leap year")

else:

print("Not leap year")

if year % 400 == 0:

print("Leap year")

else:

print("Not leap year")

4) ROLLERCOASTER TICKET

print("Welcome to the rollercoaster!")

height = int(input("What is your height in cm? "))

if height >= 120:

print("You can ride the rollercoaster!")

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

if age < 12:

bill = 5

print("please pay $5")

elif age <= 18:

bill = 7

print("please pay $7")

else:

bill = 12

print("please pay $12")

wants\_photo = input("Do you want to take photograph? Y or N ")

if wants\_photo == "Y":

bill += 3

print(f"your final bill is ${bill}\n Enjoy your ride!")

else:

print(f"your final bill is ${bill}\n Enjoy your ride!")

else:

print("sorry you are no tall enough to ride the rollercoster")

5) LOVE CALCULATOR

print("The Love Calculator is calculating your score...")

name1 = input() # What is your name?

name2 = input() # What is their name?

# 🚨 Don't change the code above 👆

# Write your code below this line 👇

combined\_name = name1 + name2

lower\_name = combined\_name.lower()

t = lower\_name.count("t")

r = lower\_name.count("r")

u = lower\_name.count("u")

e = lower\_name.count("e")

first\_num = t + r + u + e

l = lower\_name.count("l")

o = lower\_name.count("o")

v = lower\_name.count("v")

e = lower\_name.count("e")

second\_num = l + o + v + e

score = int(str(first\_num)+str(second\_num))

if (score < 10) or (score > 90):

print(f"Your score is {score}, you go together like coke and mentos.")

elif (score >= 40) and (score <= 50):

print(f"Your score is {score}, you are alright together.")

else:

print(f"Your score is {score}.")

6) TREASSURE ISLAND

print('''

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''')

print("Welcome to Treasure Island.")

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

choice1 = input("You are at a crossroad. Where do you want to go? Type 'left' or 'right'.").lower()

if choice1 == 'left':

choice2 = input('You have 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.').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?").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 dosen't exist. game Over.")

else:

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

else:

print("You fell into the hole,game over")

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