**Vaishnav’s Python Projects**

1st

BMI calculator

**# My BMi Calculator**

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

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

**# we are using PEMDASLR**

**# that is parenthesis-exponents-multiply-divide-sub-add-left\_to\_right**

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

**# or you can simply write**

**# bmi = float(weight / (float(height) \* float(height))**

**# we can directly print like this below**

**# print(int(bmi))**

**# but for specific output**

**bmi2=int(bmi)**

**print("Your BMI is " + str(bmi2))**

**2nd**

**#My life span calculator**

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

# 1year = 365 days

# 1 year = 52 weeks

# 1 year = 12 months

age1= (int(age))

years\_remain = 65 - age1

days\_remain = years\_remain \* 365

weeks\_remain = years\_remain \* 52

months\_remain = years\_remain \* 12

result = f"You have {days\_remain} days, {weeks\_remain} weeks, and {months\_remain} months left."

print(result)

**3rd**

**#My tip calculator**

**print("Welcome to the tip calculator")**

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

**per = (int(input("What percentage tip would you like to give? 10, 12, or 15 ? ")))**

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

**per1 = (per) / 100**

**per2 = (bill) \* per1**

**bill2 = (bill) + per2**

**result = bill2 / (people)**

**total = round(result, 2)**

**print(f" Each person should pay: ${total}")**

**4th**

**#BMI calculator with defining your condition**

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

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

bmi=round(weight / height \*\* 2)

if bmi < 18.5:

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

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.")

**4th**

**#Check Leap year**

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

if year % 4 == 0:

    if year % 100 == 0:

        if year % 400 == 0:

            print("Leap year.")

        else:print("Not  leap year.")

    else: print("Leap year.")

else: print("Not leap year.")

**5th**

**#Pizza Order**

print("Welcome to Python Pizza Deliveries!")

size = input("What size pizza do you want? S, M, or L ")

add\_pepperoni = input("Do you want pepperoni? Y or N ")

extra\_cheese = input("Do you want extra cheese? Y or N ")

cost= 0

if size == "S":

    cost += 15

elif size == "M":

     cost += 20

else:

    cost += 25

if add\_pepperoni == "Y":

    if size == "S":

      cost +=2

    else:

      cost +=3

if extra\_cheese == "Y":

    cost += 1

print(f"Your final bill is: ${cost}.")

**5th**

**Love Calculator**

print("Welcome to the Love Calculator!")

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

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

comb = name1 +name2

comb2 = comb.lower()

# t = comb2.count("t")

# r = comb2.count("r")

# u = comb2.count("u")

# e = comb2.count("e")

true = comb2.count("t") + comb2.count("r") + comb2.count("u") + comb2.count("e")

# true = t + r + u + e

love = comb2.count("l") + comb2.count("o") + comb2.count("v") + comb2.count("e")

per = int(str(true) + str(love))

if per <= 10 or per >= 90:

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

elif per >= 40 and per <= 50:

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

else: print (f"Your score is {per}. ")

**6th**

**Random bill pay**

import random

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

names = names\_string.split(", ")

x = len(names)

bill = random.randint(0,x-1)

p = names[bill]

# or you could do this instead of the above 3 lines

# p = random.choice(names)

print(p + " is going to buy the meal today!")

7th

Treasure Island game

**print("Welcome to Treasure Island. ")**

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

**print("keep going!! treasure is inside the castle. ")**

**dir = input("You arrived on a cross road !, Please select the direction you want to move ahead ? Left or Right ? \n").lower()**

**if dir == "left":**

**print("very good!! keep going. ")**

**river = input("you made it to the castle surrounded by river, You want to swim ? or wait for the boat? \n").lower()**

**if river == "wait":**

**print("Good decision! boat will take you to the castle. ")**

**door = input("Please select the door you wish to enter, red, yellow, green.** **\n ").lower()**

**if door == "green":**

**print("Great you got the treasure. !! You Won !! ")**

**elif door == "red":**

**print("The Monster King got you, !! GAME OVER !! ")**

**elif door == "yellow":**

**print("You were killed by guards. !! GAME OVER !! ")**

**else: print("Please select the correct option. ")**

**elif river == "swim":**

**print("You were caught by crocodiles. !! GAME OVER !! ")**

**else: print("Please select an correct option. ")**

**elif dir == "right":**

**print("Tigers Caught you on this road, !!GAME OVER!! ")**

**else:print("Please select correct option. ")**