Python Notes 📝

1. **Machine Translator project program**

**#import the package**

**from googletrans import Translator**

**# Store some text for translation in french language**

**text = ''' For often, when on my couch I lie**

**In a vacant or pensive mood,**

**They blink on that inner eye**

**What is the happiness of solitude;**

**And then my heart fills with pleasure,**

**And dance with the daffodils. '''**

**# Create an instance of Translator to use**

**translator = Translator()**

**# detect the language**

**lang = translator.detect(text)**

**print(lang)**

**print(' ')**

**# Call the translate()**

**translated = translator.translate(text, dest = 'mr')**

**#print the result**

**print(translated.text)**

1. **Translator**

**#pip install googletrans==3.1.0a0**

**#(translator[https://py-googletrans.readthedocs.io/en/latest/])**

**from googletrans import Translator**

**translator=Translator()**

**out=translator.translate("Hello! datta you are doing well keep it up",dest="hi")**

**print(out.text)**

1. **Goslate program**

**from goslate import\***

**text=input("Enter Your text:\n")**

**gs=goslate.Goslate()**

**result=gs.translate(text,'hi')**

**print(result)**

1. **Tkinter simple Airline form**

**from email.headerregistry import Address**

**from http.client import OK**

**from lib2to3.pgen2.token import NAME**

**from sre\_parse import State**

**from tkinter import ttk**

**import tkinter as tk**

**from tkinter import Frame, Label**

**from tkinter import \***

**import openpyxl**

**from openpyxl import Workbook**

**import pathlib**

**from tkinter import messagebox**

**from django.forms import PasswordInput**

**#importing connection**

**#establishing connection**

**file=pathlib.Path("backenda.xlsx")**

**if file.exists():**

**pass**

**else:**

**file=Workbook()**

**sheet=file.active**

**sheet["A1"]= "Name"**

**sheet["B1"]="Contact"**

**sheet["C1"]= "Dob"**

**sheet["D1"]="City"**

**sheet["E1"]= "State"**

**sheet["F1"]="MotherNmae"**

**sheet["G1"]= "FatherName"**

**sheet["H1"]="Address"**

**sheet["I1"]= "Password"**

**sheet["J1"]="Email"**

**sheet["K1"]= "RollNo"**

**sheet["L1"]="Gender"**

**file.save("backenda.xlsx")**

**def ok():**

**a=e1.get()**

**b=e2.get()**

**c=e3.get()**

**f=e6.get()**

**d=city.get()**

**e=state.get()**

**#l=gender.get()**

**print(a)**

**print(b)**

**print(c)**

**print(d)**

**print(e)**

**print(f)**

**# print(l)**

**file=openpyxl.load\_workbook("backenda.xlsx")**

**sheet=file.active**

**sheet.cell(column=1,row=sheet.max\_row+1,value=a)**

**sheet.cell(column=2,row=sheet.max\_row,value=b)**

**sheet.cell(column=3,row=sheet.max\_row,value=c)**

**sheet.cell(column=4,row=sheet.max\_row,value=d)**

**sheet.cell(column=5,row=sheet.max\_row,value=e)**

**sheet.cell(column=6,row=sheet.max\_row,value=f)**

**#sheet.cell(column=12,row=sheet.max\_row,value=l)**

**if gender.get()==1:**

**gen="Male"**

**print("Male")**

**sheet.cell(column=12,row=sheet.max\_row,value="Male")**

**else:**

**print("Female")**

**sheet.cell(column=12,row=sheet.max\_row,value="Female")**

**file.save("backenda.xlsx")**

**root = Tk()**

**root.geometry("500x450")**

**root.title("Airlines Booking System")**

**R\_label = Label(root, text="Airlines Booking System", width=20, font=("bold",20))**

**R\_label.place(x=90, y=53)**

**FN\_label = Label(root, text="Full Name", width=20, font=("bold",10))**

**FN\_label.place(x=68, y=130)**

**e1= Entry(root)**

**e1.place(x=240, y=130)**

**E\_label = Label(root, text="Enter your Aadhar no.", width=20, font=("bold",10))**

**E\_label.place(x=68, y=160)**

**e2= Entry(root)**

**e2.place(x=240, y=160)**

**E\_label = Label(root, text="Mobile no.", width=20, font=("bold",10))**

**E\_label.place(x=68, y=190)**

**e3= Entry(root)**

**e3.place(x=240, y=190)**

**E\_label = Label(root, text="Enter your age", width=20, font=("bold",10))**

**E\_label.place(x=68, y=220)**

**e6= Entry(root)**

**e6.place(x=240, y=220)**

**G\_label = Label(root, text="Gender", width=20, font=("bold",10))**

**G\_label.place(x=70, y=250)**

**gender = IntVar()**

**Radiobutton(root, text="Male", padx=5, variable=gender, value=1).place(x=235, y=250)**

**Radiobutton(root, text="Female", padx=5, variable=gender, value=2).place(x=290, y=250)**

**C\_label = Label(root, text="Select your Boarding", width=20, font=("bold",10))**

**C\_label.place(x=70, y=280)**

**list1 = ['Mumbai', 'Delhi', 'Nanded', 'Latur', 'Pune' ]**

**city = StringVar()**

**droplist = OptionMenu(root, city, \*list1)**

**droplist.config(width=15)**

**city.set("Boarding")**

**droplist.place(x=240, y=280)**

**C\_label = Label(root, text="Select your destination", width=20, font=("bold",10))**

**C\_label.place(x=70, y=310)**

**list1 = ['Canada', 'Japan', 'UK', 'South Africa', 'Nepal' ]**

**state = StringVar()**

**droplist = OptionMenu(root, state, \*list1)**

**droplist.config(width=15)**

**state.set("Destination")**

**droplist.place(x=240, y=310)**

**P\_label = Label(root, text="Check it", width=20, font=("bold",10))**

**P\_label.place(x=85, y=340)**

**var1 = IntVar()**

**Checkbutton(root, text="I accept all the rules of Airlines", padx=5, variable=var1).place(x=235, y=340)**

**Button(root, text="Submit",command=ok, width=20, bg='brown', fg='white').place(x=180, y=380)**

**root.mainloop()**

**=>Code 01**

a = 718687695

print(bin(a));

print(hex(a));

**=>Code 02**

ab=10+7j

print(type(ab)); # <class complex>

print(id(ab)); # 2695279914288 this is memory address

**=>Code 03**

import keyword

print(keyword.kwlist);

""" ['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await',

'break', 'class', 'continue', 'def', 'del', 'elif', 'else', 'except',

'finally', 'for', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal',

'not', 'or', 'pass', 'raise', 'return', 'try', 'while', 'with', 'yield']

"""

**=>Code 04**

a=oB10010.1

print(a)# Syntax Error (we could not represent float no. as binary )

**=>Code 05**

a= 10-9j

b=8+9j

print(a.real) # 10.0

print(b.imag) # 9.0

print("a+b") # a+b

print(a+b) # (18+0j)

**=>Code 06**

a= True # 1

b= False # 0

print(a%a) # 0

print(type(a)) # class bool

print(a+b) # 1

print(a-b) # 1

print(a\*b) # 0

print(a/a) # 1.0

**=>Code 07**

#WAP for getting prime factors of random number

import random

n=( random.randint(0,99) )

d=2

print("The prime factors of {} are ".format(n, ))

while n>1:

if n%d ==0 :

print(d)

n=n/d

continue

d+=1

**=>Code 08**

from maskpass import \*

username=askpass("Enter username : \n ")

pwd= askpass('Enter Password : \n')

if (username=='dattamundhe2410') and (pwd=='Datta@2410'):

print("Successfully verified")

elif (username !='dattamundhe2410') and (pwd=='Datta@2410') :

print("Invalid username")

elif (username =='dattamundhe2410') and (pwd !='Datta@2410') :

print("Wrong Password")

else:

print("Check your username and password.")

**=>Code 09**

a=5+2\*3

b=3

print(a)

**=>Code 10**

day = input("Enter no. of days : ")

s = day\*24\*60\*60

print("The Seconds are "+s)

**=>Code 11**

lst = ["HS001","TW0012","RT1256"]

for a in lst:

p1 = set(a)

p2 = set(a)

p3 = set(a)

q = {1,2,3,4,5,6,7,8,9}

r1 = p1.intersection(q)

r2 = p2.intersection(q)

r3 = p3.intersection(q)

print(r1 ,"\n", r2 ,"\n", r3 )

**=>Code 12**

price = int(input("Enter the price of donuts: Rs."))

quantity = int(input("Enter the no. of quantity you want as N:"))

amount = price\*quantity

if amount>1000 :

print("Yeh..discount 10% is applicable")

discount = amount\*10/100

amount = amount-discount

elif amount>500:

print("Yeh..discount 5% is applicable")

discount = amount\*5/100

amount = amount-discount

else:

print("Discount is not applicable...")

print("The amount is payble Rs.",amount)

**=>Code 13**

#love calculator

name1 = input('Enter your Firstname : \n')

name2 = input("Enter his/her Firstname : \n")

combine = name1 + name2

lower\_case = combine.lower()

t = lower\_case.count('t')

r = lower\_case.count('r')

u = lower\_case.count('u')

e = lower\_case.count('e')

true = t + r + u + e

l = lower\_case.count('t')

o = lower\_case.count('r')

v = lower\_case.count('u')

e = lower\_case.count('e')

love = l + o + v + e

love\_score = int(str( true) + str(love))

if ( love\_score >=10 and love\_score < 40 ) :

print(f"Your love score is {love\_score} which is low and you have attraction towards {name2}.")

elif ( love\_score >=40 and love\_score < 60 ) :

print(f"Your love score is {love\_score} which is medium and you can live in relation with {name2}.")

elif ( love\_score >=60 and love\_score < 100 ) :

print(f"Your love score is {love\_score} which is high and you have true love for {name2}.\n Congrats you got your first love !!!")

elif ( love\_score >=1 ):

print(f"Your love score is {love\_score} which is very low so leave it !!")

else :

print(f"Invalid input ! please give valid input.....")

**=>Code 14**

a = "datta"

a0 = a[0]

a1 = a[1]

a2 = a[2]

a3 = a[3]

a4 = a[4]

#string is reversed

print(a4+a3+a2+a1+a0)

**=>Code 15**

#wapp to read three integers

#and print their avg with 2 digit precision

n1= int(input("Enter 1st number "))

n2= int(input("Enter 2nd number "))

n3= int(input("Enter 3rd number "))

avg=(n1+n2+n3)/3

print("avg=" , round(avg,2))