**Python programming-CSA0814**

**DAY 4**

**(7 aug 24)**

**1.FINDING MEAN, MEDIAN AND MODE OF GIVE OUTPUT**

from statistics import mean,median,mode

data=[1,2,3,4,5,6,7]

meanvalue=mean(data)

medianvalue=median(data)

modevalue=mode(data)

print(meanvalue,medianvalue,modevalue)

**OUTPUT**

4 4 1

**2.PRINTING THE FIRST LETTER OF WORDS IN CAPITAL BETWEEN DOT.**

a=input()

s=a.title()

print(s)

t=s.split()

f=[word[0] for word in t]

print(".".join(f))

**OUTPUT**

Call of duty

C.O.D

**3.GET DATE AS INPUT AND PRINT THE THE DAY**

from datetime import datetime

a = input("Enter a date in format (yy-mm-dd): ")

try:

df = datetime.strptime(a, "%y-%m-%d")

day = df.strftime("%A")

print("The day is:", day)

except ValueError:

print("Invalid date format.")

**OUTPUT**

2024-08-07

The day is Wednesday

**4.GET TWO DATES AND PRINT NUMBER OF DAYS,NUMBER OF MONTHS ,NUMBER OF YEARS,BETWEEN TWO DATE**

from datetime import datetime

from dateutil.relativedelta import relativedelta

d1 = input("Enter the first date in format (yy-mm-dd): ")

d2 = input("Enter the second date in format (yy-mm-dd): ")

D1 = datetime.strptime(d1, "%y-%m-%d")

D2 = datetime.strptime(d2, "%y-%m-%d")

diff = relativedelta(D1, D2)

print(f"Years: {diff.years}, Months: {diff.months}, Days: {diff.days}")

**OUTPUT**

Enter first date in (yy-mm-dd):2005-11-18

Enter second date in (yy-mm-dd):2024-11-18

Years=19

Months=0

Days=6940

**5.GET DATE AS INPUT AND FIND THE DATE OF FIRST MONDAY OF NEXT MONTH**

from datetime import datetime, timedelta

date\_input = input("Enter a date in (yy-mm-dd): ")

sdate = datetime.strptime(date\_input, "%y-%m-%d")

if sdate.month == 12:

fd = datetime(sdate.year + 1, 1, 1)

else:

fd = datetime(sdate.year, sdate.month + 1, 1)

while fd.weekday() != 0:

fd += timedelta(days=1)

print("The first Monday of next month is:", fd.strftime("%Y-%m-%d"))

**OUTPUT**

Enter the date in (yy-mm-dd):2023-08-08

The first Monday of next month is 2023-09-04

**6.FIND THE FOLLOWINGMSUM OF SERIES**

n=int(input())

ss=0

for i in range(1,n+1):

factorial=1

for j in range(1,i+1):

factorial\*=j

ss+=factorial/i

print("sum of series is ",ss)

**OUTPUT**

sum of series is 1.0

sum of series is 2.0

sum of series is 4.0

sum of series is 10.0

sum of series is 34.0