1. **WAP to accept name and age and print the message to tell them year that they will trun 100**

name = input("Enter name:")

age = int(input("Enter age:"))

year = 2025-age+100

print(f"Hello {name}, you will turn 100 year old in {year}.")

1. **WAP to perform basic operation, indexing and slicing on array.**

import numpy as np

arr=np.array([10,20,30,40,50])

print("indexing:",arr[1])

print("slicing:",arr[1:4])

print("add 5:",arr+5)

1. **perform 1D and 2D array for numpy.**

import numpy as np

arr1=np.array([10,20,30,40])

print("1D Array:",arr1)

print("first element:",arr1[0])

print("Array +5:",arr1+5)

1. **using function find factorial of given no.**

def fact (n):

if n==0:

return 1

return n\*fact(n-1)

n=int(input("enter number:"))

print("factorial:",fact(n))

6**. Take two list and return true if they have atleast one common number**

a=[1,2,3]

b=[3,4,5]

print("common element:",any(i in a for i in b))

**7. read lines in a file using file handling.**

try:

with open(r"C:\Users\Nandini\OneDrive\Desktop\example.txt") as file:

print("Reading lines from file:\n") # Corrected to \n

for line in file:

# .strip() removes unwanted spaces and newline characters

print(line.strip())

except FileNotFoundError:

print("Error: The file was not found. Please check the path.")

**8. Demonstrate list, dictionary and tuple operation.**

my\_list=[1,2,3]

my\_list.append(4)

my\_list.remove(2)

print(my\_list)

my\_dict={"name":"Nan","age":20}

my\_dict["city"]="Mumbai"

my\_dict["age"]=21

print(my\_dict)

my\_tuple=(5,10,15,10)

print(my\_tuple.count(10))

print(my\_tuple.index(15))

**9. Diff between two time or two dates or today, tomorrow, previous date**

from datetime import date, timedelta

date1 = date(2025, 10, 5)

date2 = date(2025, 12, 25)

difference = date2 - date1

print(f"Days between {date1} and {date2}: {difference.days} days")

today = date.today()

one\_day = timedelta(days=1)

yesterday = today - one\_day

tomorrow = today + one\_day

print(f"Yesterday: {yesterday}")

print(f"Today: {today}")

print(f"Tomorrow: {tomorrow}")

1. **To find the occurence of specific word in file using regular expression**

import re

file=open(r"C:\Users\Nandini\OneDrive\Desktop\example.txt")

text = file.read()

word = "python"

# Corrected the pattern and the spelling of re.IGNORECASE

matches = re.findall(r'\b' + word + r'\b', text, re.IGNORECASE)

# The print statement is no longer indented incorrectly

print(f"The word '{word}' occurs {len(matches)} times in the file.")