13/08/25 Task 4: Use various data types, List, Lauples a and dictionary in python perogramming ca) shapping sont prièce calculator (dist) Aim: To write a python program the stoores the prices of items purchased in a list and calculates: · The Lotal bill amount · The highest - priced i Gem , the lowest-priced item Algorithm: 1. Start the program 2. Olede a list to stone price d'item 3. use sum () to calculate the total bill amount 4. use max() to find the highest-priced item 5. use min() do find the lowest - priced item 6. pisplay the results 7. End the pologram Program: Parices = [120,85,300,40,150] total = sum (prixes) highest = max (polices) lowest = min (prices) Point (" Total Bill Amount!), fotal) print (" Highest - Rniced item: ", highest) print ("Lowest-periced item:", lowest) Result: The program successfully calculated the total, highest and lowest-arrived items wing a lid.

output Total Bill Amount: 695 695 Highest - priced item: 300 Lowest - priced ifem: 40

13/08/25 Exam Result (tuple) b, student Aim; To write a python priogram that estories students' nume and marks in tuples, finds the Student with the highest marks, and display all shudons who scored whove 400. Alopanithm: 1. start the program 2 orecle a list of tuples with (student name, total month). 3 Find the student with the highest marks us, max () 4. Loop through the list and display shedents Storing 5 End the program Porogram: 3tudents = [e" Rahul ", 456), e" pariya", 398), (" Amit " 420), ("Neha 1, 389) ("Kinan", ATO) topper = max/students, key=lambda x: x (17) Resinf ("Topper") topper Co], "with", topper Ci], marks") Perint C' saludards scoring above 400: 11) for name, marks in students: if manks) 400: Point (name, "-", manks) Result: The paragram successfully displayed the Dtudent with the highest marks and listed all students who stored above 400 using all students who type

output!

Topped: Kisian with 470 matiks
Students Scoring above 400:

Rahil - 456

Amit - 420

Kisian - 470

13/08/25 C) Country - Capital Finder (Dictionary) Aim: To Greate a py mon porgyram mal manages a didionary of Countries and capitals Algerithm: 1. Start the program 2. Greate a dictionary with country - control pairs 3 Add a new Country-Capital entered by a. sean of for the coupital of a given 5. pisplay all country - Capital paires sourted alphab etically by Country. Country. 6. End the pologram Pologrami countries = d'India": "New pelhi", "Farance": "paris, " Japan". "Tokyo"3 new_ Country / input ("Enter Country:" new_ caribal /= input (" Enter Coupital: ") countries [new_ Country] = new_ Capital Search, country = input ("Enter Country to Learch") if sewich country in countries. print ("capital of", search_country, "is") Countrie es [scarch - Country]) else: point (" Country not found")

Enter Country: Gwimany

Enter Capital: Borlin

Enter Country to Learch: India

Capital of Endia is New Delhi

Prace: Paris

Greimany: Borlin

India: New delhi

Japan: Tokyo

1. 1 200.14

Perint ("In All Country - Capital powers") for country in sorted (Courtries): Country in socied (countries).

Perint (Country) ": 11, Countries (Country))

> VEL TECH - CSE LX NO. PERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5) OTAL (20) TA WITH DATE e program successfully allow new country - capital pains, capital pains, capital pains all order curing a dichienory

rainsin