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Task -5: Implement various searching and
Task -5: Implement various searching and sorting 1/2/25 operations in python programming.
1/9/25 Im: 70 implement various searching and sorting operation in python programming.
lim: To implement various searching and sort
in py than programming.
Algorithm
1. Input Definition: 2. Define the function find - on plagee - by -id that takes two purumeters:
2. Define the function find - am player - by - id
parameters: 528/2 20032 Company
3. Iterete through the list
3. Iterete through the list 4. Use a loop to iterate through each die tionary in employee list.
list,
3. Return matching found, return the content
6. Mandle No menter. whout finding mental, return
6. Mandle No mertch. 2+ the loop completes without finding martch, return Nome.
Program S.1
det sind - em ployee - by - id (em ployees, farget - id);
the field Telephone and the
71
return employee.
return None
Test function
em ployee = [
{id': 1, hame': 'Alice'; department': HB'};
[id : 2, nume: Bob', department; Engineering']
?idi3, nume!: charlie, depurtment: 'sales}
[1] [2] [2] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
Frint (find_employee_hy_id(employees, z). # output: [id:2, 'name: Bob', department: 'engineering'?
Sover pped & Fulse
for I'm range Co, mil-17;
the short of the or is a second to

1 toutoo Eid': 2, 'name': Bob', department': Engineering 1}

ortent ; business and how bright our security of 1990 Before Sorting:

[name: Alice, 'Score': 883 may para and up in ['name': Bob', + Score ': 95] Entert turk bi- pol- ospod mo - lost not said set sailed is { name': Diama; score! 85} After sorting: fell out a pound object . & Income it sill chartie 1/2 score 1:753 of good a seu . I' [hume is plane's score's 8 53 not gradulary mutage ? I hame ': 'Alice' 'Score': 883-distant of abbants is { name! : Bob!, 1 xore!: 95} det dond - ern playee - hy - id (em playees, torget - id); for employee in employees: 34 employec (id) saturget - id; setum employee. refuse None the rest danation J = 23 hald we (19, 11 your 1: , Mare, 20 Enquent, 1, 19, 3. Eig : 2 mant; Kob , defortment: Engineering) Eldes, inante; protes, alchamant, 24 por post (find wendeder par ig combige ess.s). A control : confinency 3

1/4/ 45 5.2: Algorithm hy their Scores using the Bubble Sorth Algorithms. Algorithm) 1. Initialization: · Get the bright of students and storcitin. 2. outer loop; · It reads from izo to n-1. This loop represents the number of passes through the list. 3. Track swaps: · Initilize booken variable swapped to false, this variable will truck if any swaps are made in correct pass 4. Inner loop! loop compress · I leverte from 1 20 ton-i-z (in clusive). This adjacent clements in list and performs swaps if meinecessen, 5. Early Termination: I After euch pass of inner loop check if swapped is flase. If no swaps were during pass, the list is already sorted and you can break 6. completion; The function modifies the students list in place. sorthy it by score. Program) def hobble - Sort - Scores (students): 2= bn (students) for to range (n); # Trench if any swap is made in his pass Swapped = False. for 1 in range (o, n-i-1); it students (i)['score'] > students (it)['so score']; # swap it score at current student is greater than next Student [i), student [iti] = student [iti], student [i].

swapped = True. # if no two demonts were swapped, the list is already come to stability grades tradigate et not swapped: Herman of Shodunk: 4 rape of students riams break It Greample usays. And adopted Type of student aspenda students = [C'tay' 2005 >:4 al 16: Morals freely 1 { name ": "Alice", 'score": 883, this dead deep [name': 'Bob, 'score': 95], Souled greater: [Fa [name; 'charlie, score! 75]. Reversal grapes : [92 { hume': Dlune; score 1: 85}, great irdices from print ("Before sorting") for student in students: Print (student) bubble - sort - scores (students) print ("In After sorking:") for students in students: Print (student) thus the program for various scarching and Result; sorting operation is executed and verified succe safety VEL TECH - CSE PERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5) TOTAL (20) SICH MITH DATE