Inflement various searching and southing ord southing ord southing

Aim: To Implement various sounding and sounting of abording.

Algorithm!

- " Inle Tetination
- a. Petine the function find-employee-by-Id takes two Panameters
- a. A list of dictionaries (employee) Where each dictionary reinserents and employee record with keys id, name, and department
- b An integer Harget-Id) oreliaesting the anilogee
- 3. Iterate thorough the list:

 use a for bot to its exade through each dictionary in the emilloyee list.
- 4. check for motoring is.

 Which in the loss, check if the id field of current dictionary motores the tanget-id.
- 5. Return Matching Record:

 If a match is found , sector The convent diction
- 5. St the loop completes without finding a model noting

Eito: 2: nometo ob.: dellandhant: engineenny? outrel: Enter the first number who there where's later to summer listes { id ': 2 : name ': Bob', department : erg. neering }. (10 del) househ specified sidmon many about the state of the

del find - emil byce - by - id (emil leyers : tanget - id); 19 solsow; for emboyee in emboyees: if emlloyee (ib) = = -longed - id; return emboyee Jeturn Hone # Test the function. enfloyees = C {id: 1, 'nome': 'Alica!, 'delartment', 'HR'3, { 'id: 2, nome ': '130b', 'dePartment', 'Engineering'} {': d'isname ': 'charlic', 'delandment '; 'sales'}, Point (find-embyee-by-id (employees, 0) ettoutind {'id: 2'nome' Bob', delorment! 'Engineering '} Result: Thus to implement various searching and sorting operation in Python Brothawwind.

Aim: To develop a Python Program that shele stoden! necords by source in ascending order stoden! necords by source in ascending order sing the bibble sort algorithm.

Algorithm:

1. In itialization

- · Get the length of the students list and store it in n.
- 2. outer loop:
 . it erate forom i=0 to n-1 (in clusive) this loop
 aretresents the number of Passes

3. Torack swals!

. Initilize a boolean moviable swalled to Alse This moviable will took if any swall are mode convent Pass

4. Inner loo?

. Alevake from j=0 to n-i-2 (in clusive). This look compares adject elements in the list and Perform swaps if necessary

5. amade and swap

· for each Pair of adjacent element (ie students (jti));

out Rut

Before sorting l'name !: 'Alice!! scare! 283 { name ! , pop ! , scerc . : 423 { 'nome ', "charlic', 's core ': 7 5} { name 1, dD iong ! 1 score! : 85} After sonting g'rome ! choorlie! score! 75} { 'nome ': Diona !! Scare ! 85} { 'nome '! Alice ! score : 88 } { 'nome' i' Bob'i'score ! 95}

the sound of the s

frankling 1

· comfore their score values · J.P Studente Gi) (score) > students (j+1) (score) swar the two elements. · set swarped to rowe to indicate that a swal was made 6. Early Cominations · After each has of the inner loop, check if swarred is false if no swar sweek mode dusing the Pase the list is almody sinked and you can broak of the outer look early. · The function modifies the students list in 7. completion Place sosting by store Leidrom del bubble - sort - scores (students): n = len (students) for in in stong e (n); At work if any swood is made in this 7685 swalled = fabe for ; in songe (0 v=11); if students (i) (score) > students (j+) (SCENT: # swal if the sore of the current stout is greater that the next

(i) strabote: (H) et rabote: (i+i) et rabote (ii) trabote swarled = Torue #JP no two elements were swalled the 1st is about sorted if not swaffed borok. # Example usage students = [{ 'nome ': 'Alice ! ' score ! 88}, { 'rame ', 'Bob', 'score ! 95}. { name : 'charlie', 'score : 75 }, {name ': 'Diana', 'Score'; EF]. Print ("Before Sorting!) for student in students; Print (Student) bubble - sort - scores (students) for Student in student. VELTECH Printo (Studen 1) PERFORMANCE (5) RESULT AND ANALYSIS (3) VIVA VOCE (3) RECORD (4) TOTAL (15) SIGN WITH DATE Result: Thus the Programs for writing and sorting obvioling is executed and verify successfully