Programming.

To inflement various searching and sorting oferations in Python Programming.

5.1 A company stores employee records in a list of dictionaires, where reach dictionary contains it, name and defartment. write a function find-employee -by-id that takes this list and a target employee ID as arguments and returns the dictionary of the employee with the matching (D, or more if no such employee is fainty.)

Algorithm:

1. influt definition:

Parameters:

2. Define the function find - employee - by-id that taker two

a. A list of dictionaries (employees), where each dictionary refresents an employee record with keys idiname, and defortment b. An integer (target_Id) refreserting the employee ID to be searched.

3. iterate through the list:

we a for loof to iterate through each dictionary in the emfloyeer list.

4. Check for motching 10:-

within the loop, check if the id feild the the current dictionary matches the target — id.

5. Return modeling Record:

if a mostly is found, return the current dictionary.

6. Handle No modelh.

if the loop completes without finding a match, lettern none.

l'id': 2, 'name': 'Bob', 'delarement': 'Engineering'y

Program 500 Las gridies 200Hpt James or the

A company stores employee related in a list of and and and deformant. Long a substantial of the those traves the name and deformant come a failed and the company of the analyse with the matching (D) or home if his such employee and analyse with the matching (D) or home if his such employee a substitutions.

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2. Define the function that englose by 13 that toler two fatureters:

a. A lite of dictionaties (enfloyers), where each dictionary reflectents an enfloyee related with keys idinanc, and decidencity.

4. An integer (Hargelid) refleseithng the enfloyee 20 to be searched.

3. Heade through the list:

पाट व नीन १००१ नक iterate नामनावित हर्ता संतिमावानम् ता नाम समीवसंबद्ध ११८६.

in theat for matching 10:

when the the tork the id felld the the current

5 Resum matching Record:

if a made is found, votum the current dictionary.

thandle to modify.

the conflicter cottout finding a mat to

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Program 5.1
def Ind _ employee _ by _ id (employees, harget _ id);
   for employees in employees:
 if emfloyee (' id') = = +arget - id:
     return employee
    return None
 # rest the function
     employees = C
fid': 1, 'name': 'Alice', 'defartment': 'HR'Y,
  ['id': 2, 'name': 1806', 'defortment': 'engineering'y,
['id':3, 'name!; 1 Chatter, 'defartment': 'sales'y,
 fint (find_employee_by_id (employees,2)) # output: {'id',2, 'mme'
   'Bob', 'defartment': 'Engineering'y
52: you are
               developing a grade management system for a
School. The system maintain a list of students records, where
each record to refresented as a dictionary a student's
name and score the bubble sort algorithm.
Algorithm:
 1. Initialization:
   · God the length of the Students list and store it in n.
a. outer loop.
  · iterate from i=0 to TH (inclusive). This loop represents the
 number of Passes through the list
3. Trage Swals
 · Instalize a boolean variable swalled to large. The
 variable will trave if any scools are made in the
```

Cultott Pass.

· Tende from 7 = 0 to n-i-2 (inclusive). This loop adjacent elements Bolline sorting in the list and Performs swalls it necessary. (89: '0m2' , '00 dA' : '9mon') 5. complare and eval: (20: 151052' 1609': 15000' (5+1)): · for each fair of advicent crements (i.e., students (i) and students · comfare their score values. "more"; 'gron", "If students (i)['Score'] > students [Hi]['Score'], swal the two elements " set smalled to thue to indicate that a swall was made. 6. Early retarination: (3F: 1910)21 (9H10) : 19001) · After each face of the inner 100%, check if swapped is false. If no swals were make during the lass the list is already sorted, and your can break out of the outer loop early. 7. Completion: . The function modifies the students list in place, sorting it ! score. Program 522. def bubble - sort - scores (squdents): n = 1en (students) for i in range (n): # Track if any swal in this lass scaffed = faise for sin range (o, n-1-1): if students (i)['score:] > students(i)['score:]: # swall if the score of the current student is greater than the next students (i), students (i+1)= students (i+1), students Swalled = -true # if no two exements were smalled the list is executed some if not swalled: break

4. I'mer loop:

:9(0) One ... outfut: Therete -flow De o -to 0 -to 2 (motivaye). This look oddient of one Dentity Before corting:

Exercision to exercise the day of me { name !: 'Alice', 'score': 883 good and sugge f'name!: 'Bob', 'Score': 953 [name' : 'Charlie', 'Score' : 25 } f'name'; 'piana', 'swre!: 85] = ['sro2'][) 24 shup? Tr After Sorting: 5 both gkolibri of guil- of 6900000 to {'name': 'Charmet, 'Score': 753 L'name!: 'Alice', 'score!: 883 2004 000 000 000 { name : 'Bob', 'Score': 959 2. Confletion: रूप मा हमारक 197019 ता नहार उमारकामह अमें उभी केवल north तारी जमा. Store. : (21006UP2) 22402 - 2402 - 31404 204 nevente) november :(1) 38000 N 1 461 22 pg 214- 121 9,0002 yao 4; 300 or # 90109- = 50Mare : (1-1-0,0) some / 116 62 : [13+002] [14] STUDBUTE < [13+002] (8] STUDBUTE 4) 130000 11 JUDANTS TUDANTO DAT- 30 DATOS 24- 25 80002 # whole [H] shownes of H) should be not bet eny- = to House. encoder 2 121 str. Lollews grow Thomas out on 7 # : 60112 Jon 7

Example usage

Students = [

['name!: 'Alice', 'Schore': 883,

['name!: 'Bob', 'Score': 953,

['name!: 'Charlie': 753,

['name!: 'Diana! & 'Score!: 853]

[MINTE ("Before Sorting:")

-Bot students in students:

Plint (student)

bubble - Sort - Scores (Students)

Bint ("In After Sorting:")

For student in students:

Plint (Student)

VEL TECH - CS	E
	5
PERFORMANCE (5)	5
RESULT AND ANALYSIS (6)	5
VIVA VOCE (5)	
RECORD (5)	
TOTAL (20)	11
SIGN WITH	

RESULT:- Thus, the Program for various scorching and sorting of successfully.