Programming assignment unit 6

Part1

**Code:**

employees = ['Olivia', 'Ethan', 'Aria', 'Caleb', 'Mia', 'Jackson', 'Sophia', 'Liam', 'Ava', 'Noah']

subList1 = employees[0:5]

subList2 = employees[5:10]

subList2.append('Kriti Brown')

del subList1[1]

subList1.extend(subList2)

salaryList = [2000, 2500, 2000, 4000, 4200, 3000, 3500, 2800, 3200, 2200]

def rise(input\_list):

for i in range(len(input\_list)):

rised\_salary = input\_list[i] + input\_list[i] \* 0.04

input\_list[i] = rised\_salary

return None

rise(salaryList)

salaryList.sort()

print("Top salaries are: ", salaryList[9], ",", salaryList[8], ", and", salaryList[7])

The code above represents a program that does the following:

1. Initialize list object *employees*.
2. Initialize two sub list, *subList1* contains first half of employees list, and *subList2* contains the second half.
3. Adding a new employee to *subList1* using append() function.
4. Remove the 2nd employee in *subList1* using del statement.
5. Merge *subList2* with *subList1*.
6. Initialize *salaryList*, which contains the salary for each employee.
7. Define rise() function that takes one parameter *input\_list*, then it starts a loop its iteration times specify depends on the argument list length, inside the loop, it initializes local variable *rised\_salary* which contains each salary raised by 4%, then each salary replaced with the its reseed version. Finally, the function returns none.
8. In this step, the program modifies *salaryList* using rise() function.
9. The program sorting the salary’s list using sort() function
10. Finally, the program using print() function to print the top 3 salaries, which are the last three salaries in the list.

**Output:**

Top salaries are: 4368.0 , 4160.0 , and 3640.0

Part 2

**Code:**

def dist(s):

wordList = s.split()

wordList.reverse()

print(wordList)

a = "I'am a programmer"

dist(a)

This program is taking a sentence as input and converts it into wordlist, and then reverse the list order.

First it define a function dist() takes one parameter *s*, using split() function it convert the argument into a list and store it in local variable *wordlist*, then it reverse the list using reverse() function (Ramuglia, 2023). Finally, print the list.

**Output:**

['programmer', 'a', "I'am"]

Thanks.

**References**

# Gabriel Ramuglia. (2023, sep, 06). Python Reverse List: Complete Guide (With Examples). Ioflood. https://ioflood.com/blog/python-reverse-list/