# **CS 1101-01: Programming Assignment Unit 6**

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Bachelor of Science in Computer Science, Uopeople

CS 1101-01 - AY2024-T3: List

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**Question 1**

Consider that you are working as Data Analyst in an organization. The HR department needs you to carry out following operation on existing list of 10 employees name (you can assume 10 names in a list here).

* Split the list into two sub-list namely subList1 and subList2, each containing 5 names.
* A new employee (assume the name “Kriti Brown”) joins, and you must add that name in subList2.
* Remove the second employee's name from subList1.
* Merge both the lists.
* Assume there is another list salaryList that stores salary of these employees. Give a rise of 4% to every employee and update the salaryList.
* Sort the SalaryList and show top 3 salaries.

Write the Python code and output for the same.

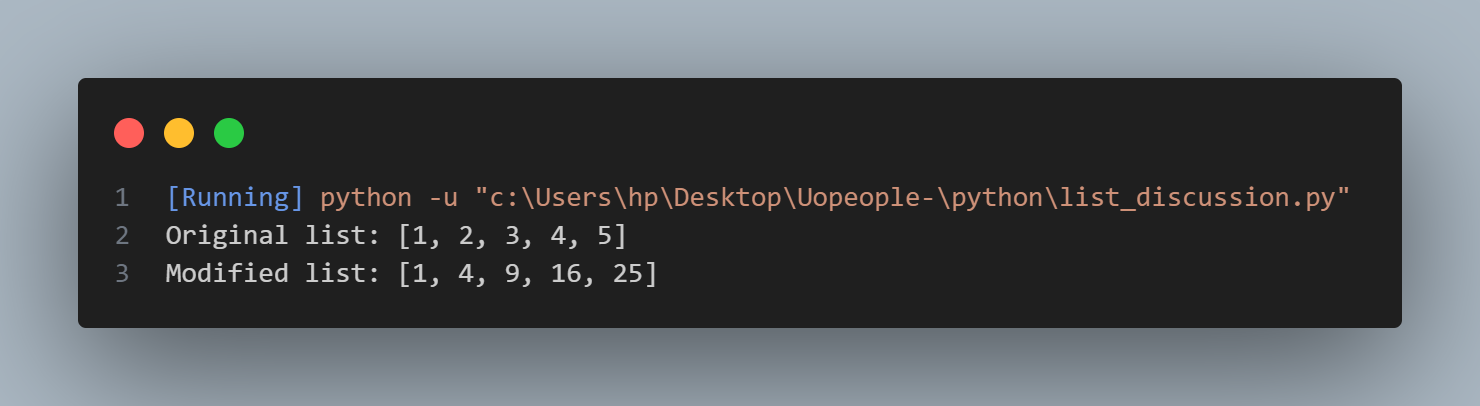
**Question 2**

Design a program such that it converts a sentence into wordlist. Reverse the wordlist then. Write the code and output for the same.

**Answer to question 1**

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**Fig 1 *(code function)***

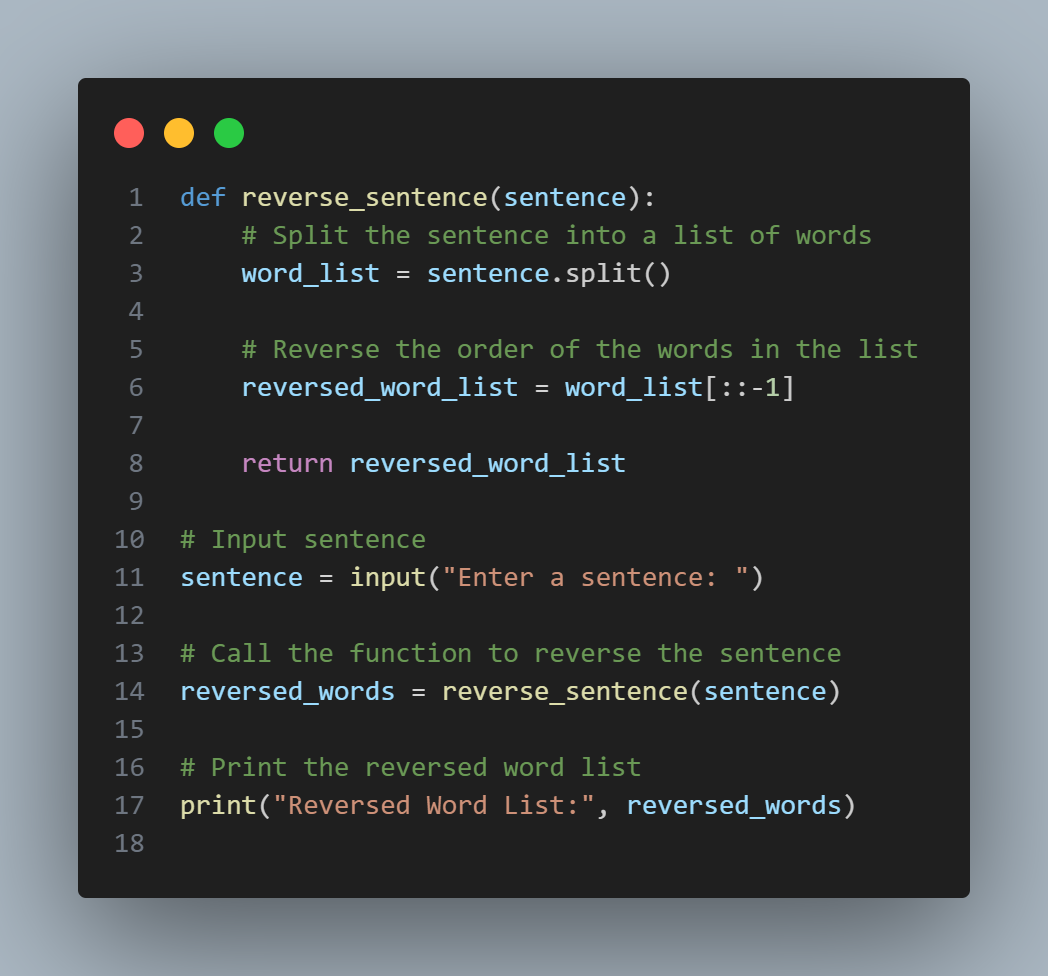
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**Fig 1 Code output *(code function)code function***

1. Firstly I declared my list of 10 employees which are as follows:
2. Secondly I split them into 2 different sublist as requested from the instructions
3. I added a new employee to list 2
4. Removed the second employee in sub list 1
5. I merged both list
6. Created a salary object for each employee
7. Created a function that will increase each employees salary by 4%]
8. Sorted the top 3 salaries in descending orders

**Answer to question 1**

Here's a Python program that takes a sentence as input, converts it into a list of words, reverses the order of the words in the list, and then prints the reversed word list:



**References**

Downey, A. (2015,). Think Python: How to think like a computer scientist ,*Chapter 5 - conditionals and recursion (pp 5.7)*

<https://greenteapress.com/thinkpython2/thinkpython2.pdf>