

Module 2 Assignment

Q1. What is list ? How you reverse a list ?

Lists are used to store multiple items in a single variable.

Lists are one of 4 built-in data types in Python used to store collections of data, the other 3 are Tuple, Set, and Dictionary, all with different qualities and usage.

A list is a collection of ordered, changeable, and duplicate items that can be of any data type.

Reverse() method is built-in method in python that's help you can reverse the list in place means that modifies and change the original list

Q2. How will you remove last object from a list ?

Suppose list 1 is [2,33,222,14 and 25], what is list 1[- 1]?

the answer is [2,33,222,14]

Q3 Differences Between List Extend() and Append() methods ?

Append ()	Extend ()
Append adds a single element to the end of the list	Extend adds multiple elements from an iterable to the list
Syntax : list_name.append(element)	Syntax : list_name.extend(iterable)
The element passed as an argument is appended to the end of the list	Each element of the iterable passed as an argument gets appended to the end of the list

Q4 What is tuple ? Difference between list and tuple

Tuple	List
<u>Tuples</u> are immutable (unchangeable)	<u>Lists</u> are <u>mutable</u> (changeable)
Tuple consumes less memory as compared to the list	Lists consume more memory
A Tuple data type is appropriate for accessing the elements	The list is better for performing operations, such as insertion and deletion.

Q5 Why do you use the zip file in python ?

in python zip() function creates an iterator that will aggregate the elements from two or more iterables you can use the resulting iterator to quickly and consistently solve common programming problems.

Q6 How can you use pick a random item from a range?

1. Using random.randrange() function.
2. Using random.randint() function.
3. Using random.random() function.
4. Using random.sample() function.

Q7 how many basic type of functions are available in python

they are two type of functions have in python

- Built-in function they have 68 built-in function in the python
- UDF (user define function) they user can created and used in specific programme.