**Arrays (Lists)**

1. **Create a List**: Ask the user to input 10 natural numbers and store them in a list. Print the list.
2. **List Indexing**: Given a list of numbers [10, 20, 30, 40, 50], access and print the third element.
3. **List Slicing**: Given a list of numbers [1, 2, 3, 4, 5, 6, 7, 8, 9, 10], slice the list to get the first 5 elements and print them.
4. **Append to List**: Append the color 'purple' to the list of colors ['red', 'blue', 'green'] and print the updated list.
5. **Extend List**: Extend the list of fruits ['apple', 'banana'] with another list ['cherry', 'date'] and print the updated list.
6. **Insert into List**: Insert the number 15 at the second position in the list [10, 20, 30] and print the updated list.
7. **Remove from List**: Remove the first occurrence of the element 'banana' from the list ['apple', 'banana', 'cherry', 'banana'] and print the updated list.
8. **Pop from List**: Pop the last element from the list [1, 2, 3, 4, 5], print the popped element, and the updated list.
9. **Reverse List**: Reverse the list [1, 2, 3, 4, 5] and print the reversed list.
10. **Sort List**: Sort the list of names ['John', 'Alice', 'Bob'] in alphabetical order and print the sorted list.
11. **List Comprehension**: Create a list of squares of the first 10 natural numbers using list comprehension and print the list.
12. **Find Max and Min**: Find the maximum and minimum values in the list [4, 2, 8, 6, 5] and print them.
13. **Sum of Elements**: Calculate the sum of all elements in the list [4, 2, 8, 6, 5] and print it.
14. **Product of Elements**: Calculate the product of all elements in the list [1, 2, 3, 4] and print it.
15. **Remove Duplicates**: Remove duplicate elements from the list [1, 2, 2, 3, 4, 4, 5] and print the updated list.
16. **List of Even Numbers**: Create a list of even numbers from the given list [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] and print it.
17. **List to String**: Convert the list of characters ['H', 'e', 'l', 'l', 'o'] to a string and print it.
18. **String to List**: Convert the string "Hello" to a list of characters and print it.

**Tuples**

1. **Create a Tuple**: Create a tuple with different data types (e.g., integer, float, string) and print it.
2. **Access Tuple Elements**: Given a tuple ('a', 'b', 'c', 'd'), access and print the second element.
3. **Unpack Tuple**: Unpack the tuple (1, 2, 3) into three variables and print them.
4. **Concatenate Tuples**: Concatenate the tuples (1, 2) and (3, 4) and print the result.
5. **Repeat Tuple**: Repeat the tuple (1, 2, 3) three times and print the result.
6. **Tuple Slicing**: Slice the tuple (1, 2, 3, 4, 5) to get the last three elements and print them.
7. **Check Element in Tuple**: Check if the element 'b' exists in the tuple ('a', 'b', 'c') and print the result.
8. **Count Tuple Elements**: Count the occurrences of the element 2 in the tuple (1, 2, 2, 3, 4) and print the result.
9. **Index of Element in Tuple**: Find the index of the element 'c' in the tuple ('a', 'b', 'c', 'd') and print it.
10. **Convert Tuple to List**: Convert the tuple (1, 2, 3) to a list and print it.
11. **Convert List to Tuple**: Convert the list [1, 2, 3] to a tuple and print it.
12. **Nested Tuples**: Create a nested tuple ((1, 2), (3, 4), (5, 6)) and print the first element of the second tuple.