



# Assignment 5

```
l = [1, 2, 35, 67, {"a": 45, "b": 78, "c": {90, 20, 45}}, (12, "prachi", 9022), {67, "Anand", 89},  
[12, "r",  
909]] Use the above list and solve the below
```

## Question 1:

**Print each element of the list using a for loop.**

Hint: Your output should display each item on a new line.

## Question 2:

**Identify the type of each element in the list.**

Hint: Use a for loop to iterate through the list and print the type of each element.

## Question 3:

**Extract and print all integers from the list using a for loop.**

Hint: You may need to check for integers inside nested structures (like dictionaries and sets).

## Question 4:

**Find and print all string values inside the list using a for loop.**

Hint: Be sure to account for strings inside tuples, dictionaries, and lists.

## Question 5:

**Print only the dictionary key-value pairs from the list.**

Hint: Write a for loop to identify the dictionary in the list and print its keys and corresponding values.

## Question 6:

**Extract and print all unique values from the set found inside the dictionary in the list.** Hint: Use a for loop to navigate to the set and print each value.

## Question 7:

**Flatten and print all elements in the list (including nested elements).**

Hint: Use a for loop to print every single element inside the list, regardless of whether it is inside another list, dictionary, tuple, or set.

## Question 8:

**Count how many times a certain data type (e.g., integer, string) appears in the list.**

Hint: Use a for loop to count and print how many integers and strings exist in the list, including inside nested structures.

**Question 9:**

**Add 10 to each integer found in the list.**

Hint: Use a for loop to go through the list and, if an integer is found, add 10 to it and print the result.

**Question 10:**

**Write a program that prints elements from the set found inside the dictionary, but only if the value is greater than 30.**

Hint: Use a for loop to identify and filter values from the set.

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