## R3WE3 SKILLUP SUMMER 2023 Task - 003

Date: 07/08/2023

- 1. Write a Python program to find the sum of all elements in a given list.
- 2. Create a program that takes a list of numbers as input and outputs a new list with only the even numbers.
- 3. Write a program to reverse a given list without using the reverse() function.
- 4. Implement a program to find the largest element in a list of integers.
- 5. Create a program that removes all duplicates from a list and returns a new list with unique elements.
- 6. Create a program that takes a list of numbers and returns a new list with cumulative sums.
- 7. Implement a program to find the intersection of two lists, keeping duplicates.
- 8. Write a Python program to rotate a list by a given number of positions to the right.
- 9. Create a program that takes a list of tuples (name, age) and sorts them based on age.
- 10.Implement a program to find the maximum difference between two elements in a list where the larger element comes after the smaller element.
- 11. Write a program that takes a list of strings and returns a new list with only the strings containing a specific substring.
- 12. Create a program for Decimal to binary number conversion and vice versa?
- 13. Write a Program to Find the Magic No?
- 14. Question: Write a Python program that takes a list of integers as input and finds the longest subsequence of consecutive integers. A subsequence is a sequence that can be derived from another sequence by deleting some or no elements, without changing the order of the remaining elements.

For example, given the input list: [1, 9, 3, 10, 4, 20, 2], the program should output [1, 3, 4]
since this is the longest subsequence of consecutive integers present in the list.

## **Instruction for Solution Submission:**

- 1. Copy all the files into a folder
- 2. Right click and send it to create zip (compress zip folder).
- 3. Rename it to "Yourname\_taskno\_date"
- 4. Upload it to Discord Server

Quote of the Day:

Code your dreams into reality, one line at a time.