

## Q 1 Write a python program to remove duplicates from a list

```
In [8]: 1 l = ["hello", "hello", "world", "pyhton"]
2
3 def remove_duplicates_list(lst):
4     '''remove the duplicates from the list'''
5     unique_list = []
6     for ele in lst:
7         if ele not in unique_list:
8             unique_list.append(ele)
9     return unique_list
10 print(remove_duplicates_list(l))
```

```
['hello', 'world', 'pyhton']
```

## Q 2 Write a program to calculate the Area of a Triangle

```
In [9]: 1 def area_triangle(b,h):
2         '''area of triangle'''
3         return 0.5*b*h
4
5 print(area_triangle(5,10))
```

```
25.0
```

## Q 3 Python Program to Swap Two Variables.

```
In [10]: 1 def swap_variables(a,b):
2         '''swap variables'''
3         a,b=b,a
4         return a,b
5 print(swap_variables(100,60))
```

```
(60, 100)
```

## Q 4 Python Program to Check if a Number is Odd or Even.

```
In [11]: 1 def check_even_odd(n):  
2         '''check num is even or odd'''  
3         if n%2 == 0:  
4             print(f"{n} is even number")  
5         else:  
6             print(f"{n} is odd number")  
7         check_even_odd(3)
```

3 is odd number

## Q 5 Python Program to Check Leap Year

```
In [12]: 1 def leap_year(year):  
2         '''check given year is leap year or not'''  
3         if year % 400 == 0:  
4             return True  
5         elif year % 100 == 0:  
6             return False  
7         elif year % 4 == 0:  
8             return True  
9         else:  
10            return False  
11  
12         print(leap_year(2024))
```

True