Pre-Practical activity

- 1. Define recursion and how it works
- 2. Explain the concept of tail recursion and how it differs from regular recursion.
- 3. Why is tail recursion generally considered more efficient in terms of memory usage compared to non-tail recursion?
- 4. Rewrite this code to be a recursive function:

```
int factorialIterative(int n) {
   int result = 1;
   for (int i = 2; i <= n; i++) {
      result *= i;
   }
   return result;
}</pre>
```

5. Rewrite this code to use tail recursion:

```
int factorial(int n) {
    if (n <= 1)
        return 1;
    else
        return n * factorial(n - 1);
}</pre>
```

6.	Write a tail recursive function to compute the factorial of a number.
7.	Write a recursive function that reverses a string.