

## **Assignment-3**

1. What is SDLC ?
2. Explain with flow chart five models of SDLC. Also write the advantages and disadvantages of each.
3. Convert upper case to lower case and lower case to upper case without using inbuilt functions.
4. Write the programs for problems 21-30 from the below link  
<https://www.programiz.com/python-programming/examples>
5. Leetcode problem – Count of substrings that start and end with 1 in given binary string  
Given a binary string, count the number of substrings that start and end with 1.

Examples:

Input: "00100101"

Output: 3

Explanation: three substrings are "1001", "100101" and "101"

Input: "1001"

Output: 1

Explanation: one substring "1001"