

Assessment on Practice Assignment 01 (ODD)

Consider the tokens described in the table. Write a (F)lex specification and construct a lexical analyzer that takes an input string and outputs the tokens that appear in the input string.

Token	Example	Description
URL	https://sites.google.com/a/cse.du.ac.bd/cse-3112/home https://docs.google.com/spreadsheets/d/1kwQ0EcH9OF8xRsuyB4t1Zc7O78IE6ol-UDZ1KlbqG88/edit#gid=0	<ul style="list-style-type: none">• Must start with http or https or ftp followed by ://• Must match a valid domain name• Could contain a port specification (http://www.sitepoint.com:80)• Could contain digit, letter, dots, hyphens, forward slashes, multiple times
IP_address	0.0.0.0 255.255.255.255	<ul style="list-style-type: none">• If it starts with 25, next number should be 0 to 5 (250 to 255)• If it starts with 2, next number could be 0-4 followed by 0-9 (200 to 249)• zero occurrence of 0 or 1, 0-9, then zero occurrence of any number between 0-9 (0 to 199)• Then dot character