Activity 3 - Alphabets, Strings and Language Application Practice

5 points each

What to Do

1. Give five (5) strings (w) that can be derived from the given alphabet Σ :

$$\Sigma = \{a,b,c\}$$

YOUR ANSWER:

$$w = ?$$

2. Given by two w strings:

$$a = automata$$

$$b = theory$$

What is aa, ab, ba, and bb (concatenation).

YOUR ANSWER:

$$aa = ?$$

$$ab = ?$$

$$ba = ?$$

$$bb = ?$$

3. Write the language to atleast 5 members defined with the Language notation:

$$L = \{ab^k | k \ge 3\}$$

YOUR ANSWER:

$$L = \{?, ?, ?, ?, ?, \ldots\}$$

4. Provide the Language notation for the given language L:

$$L = \{xy, xyy, xyyy, xyyyy, \ldots\}$$

YOUR ANSWER:

$$L=\{?|?\}$$

When to Submit It

Before next week class