DFA examples-2

1. L = { w | w contains at least **two 0's** and at most **one 1** } | Σ={0, 1}
2. L= { w | w starts and ends with different characters and the length of w is even} | Σ={0, 1}
3. L= { w | w contains even number of **'a'** and ends with **'bc'** | Σ = {a, b, c}
4. L = {w | w contains even number of **0's** or odd number of **2's**.} over Σ = {0, 1, 2}
5. L = {w | w starts with an even number of **'a'**, contains **'ba'** and ends with **'baa'**} | Σ = {a,b}

6. L = { w | w does not contain **'mnm'** | Σ = {m,n,w}
7. L = { w | w does not contain **'xyz'** *and* ends with **'yy'** | Σ = {x,y,z}
8. L = {w | w contains the set of all strings that has neither **'00'** nor **'11'** as substring} | Σ = {0, 1, 2}
9. L = { w | w does not start with **'01'** and the 3rd last character is **'1'** } | Σ={0, 1}

10. L = {w | w contains the set of all strings whose length always returns **remainder 2** when divided by **4** } | Σ = {0, 1}
11. L = {w | w is a palindrome with a max length of 3} | Σ = {0,1}
12. L = { $a^i b^j$ | i ≥ 0, j ≥ 0, i + j is an odd number} | Σ = {a, b}