DFA examples

1. Design a DFA that accepts the language of strings that starts with '**r**' and ends with '**pq**' over the alphabet {p,q,r}.

2. Design a DFA for the following language, L = { starts with **'mn'** and contains **'xm'** and ends with **'x' }** | Σ = {m,n,x}

3. Design a DFA for the following language, L = { w | w starts with **"ab"** and contains **"bba"** and ends with **"bb"**} | Σ = {a, b}

4. Design a DFA for the following language, L= { starts with **'c'** *and* contains **'abc'** or **'bca'** *and* ends with **'b' }** | Σ = {a,b,c}

5. Design a DFA for the following language, L= {contains **'zyx'** and ends with **'zy'}** | Σ = {x,y,z}

6. Design a DFA for the following language, L= { starts with **'0'** and contains **'110'** and ends with **'01'** } | Σ = {0,1}

7. Design a DFA for the following language, L = { starts with **'gh'** and contains **'kgh'** and ends with **'gh'** } | Σ = {g,h,k}

8. Design a DFA for the following language, L = { starts with **'11'** and contains either **'010' or '101'**} | Σ = {0,1}