Assignment # 1

Q1) Identify the letters in each set alphabet:

1. Σ = { x, y, z}
2. Σ = {b, 1, a, 0}

Q2) Construct the powerset for the following sets:

1. {0,1}
2. {x,y}U{y,z}
3. {0,1,2,3,4}Π{1,3,5,7}

Q3) State the alphabet Σ for the following language:

1. L= {ε,0,1,00,01,10,11,000,001,010,011,….}
2. L= {a, aa, aaa, ….}
3. L= { ε }

Q4) Construct the language and identify the length of string:

1. If the letters a = SAaSS and b = aASS
2. If the letters a = 010110 and b = 101001 and c = 001101