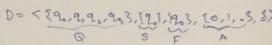
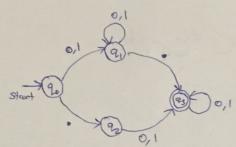
1. Consider the following DFA:





with start starte 90, end starte 93. This generates the language of unsigned real numbers in binary given by the regex (011)\* (41)\* ((011)\*, (011)\*.

2. Consider the CFG G=< {A,B,C,S3, {O,1,.3,P,S7 given by
the production rules,

 $S \rightarrow oAliAl.B$   $A \rightarrow oAliAl.C$   $B \rightarrow oCliC$   $C \rightarrow oCliClE$ 

This is a right linear grammar which generates the language of unsigned real numbers in binary.