Q1. Consider the following datalog program.

\[
\begin{align*}
R(1,2) \\
R(1,3) \\
S(5,6) \\
S(3,7) \\
S(2,7) \\
T(x,z) & : - R(x,y), S(y,z), y > 2 \\
T(x,z) & : - R(x,y), S(y,z), z > 6 
\end{align*}
\]

1. Use the assignment table method to construct the result of relation \(T\).
2. Write the relational algebra query corresponding the datalog program.

Q2. Consider the following relations.

\[
\begin{align*}
\text{Movies} & \left( \text{title, year, length, genre, studioName} \right) \\
\text{StarsIn} & \left( \text{movieTitle, movieYear, starName} \right)
\end{align*}
\]

Write a datalog program to find the actors that starred in ‘sci-fi’ movies produced by ‘Disney’.