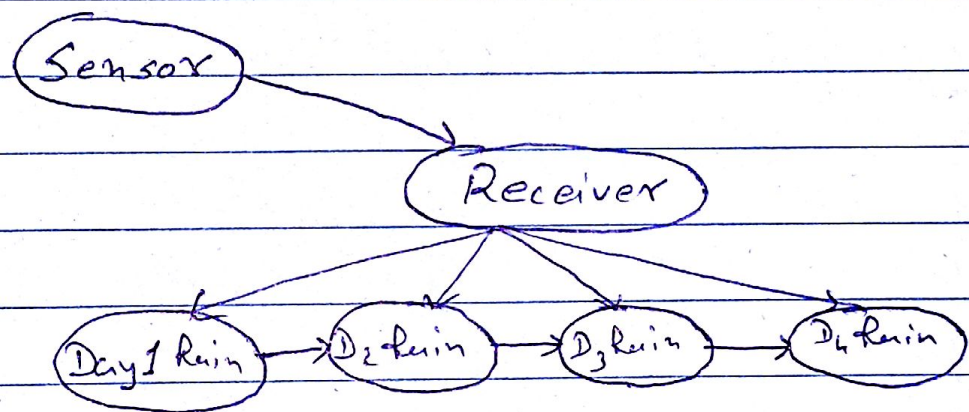


4.  $\rightarrow$  Receiver data is directly dependent on sensor data.

$\rightarrow$  sensor data is

$\rightarrow$  Data of rainfall for a particular day can be inferred from previous day's rainfall and also from receiver data for same day independently.

So the bayesian network:



$\rightarrow$  Observed variables:

1) Receiver 2) Sensor 3) D<sub>1</sub> Rain

$\Rightarrow$  Unobserved variables

1) D<sub>2</sub> Rain 2) D<sub>3</sub> Rain 3) D<sub>4</sub> Rain

$\rightarrow$  Independence:

1)  $D_1 \perp \text{Sensor} \mid \text{Receiver}$  2)  $D_2 \perp \text{Sensor} \mid D_1$  3)  $D_2 \perp \text{Sensor} \mid \text{Receiver}$