$$\Rightarrow P(P|W) = \frac{P(W|PP) P(P)}{P(W)}$$

$$= \frac{3/3 \cdot 3/4}{5/4}$$

= 0.6

$$\Rightarrow P(\neg P|w) = 1-0.6$$

= 0.4.

> P(P) =
$$\frac{3}{7}$$
Probability of playing termin.

> P(W) = $\frac{5}{7}$
Probability of warm

> P(WIP) = $\frac{3}{3}$

W(3)
Yen (3)

⇒ Calculate whether player will play tennin or not given the weather in warm.

$$P(P|W) = \frac{P(W|P) P(P)}{P(W)}$$

$$P(\neg P|W) = \frac{P(W|\neg P)P(\neg P)}{P(W)}$$

=> So, we omit the denominator here.

$$P(P|W) = P(W|P) P(P)$$

= $9/3x \frac{9}{7} = \frac{9}{21} = \frac{3}{7}$

$$P(\neg P|w) = P(w|\neg P) P(\neg P)$$

= $\frac{2}{4} \times \frac{4}{7}$
= $\frac{8}{28} = \frac{62}{7}$

Am

1 Table in page number 9 (Naive Bayen PDF). ⇒ Baned on that table calculate if the player wall play tennin given outlook in Sunny; temp in cool, humidity in high, wind speed in strong. 由P(PISAHACAST) 7 P(TPISOHOCOST) P(PISAHACAST)= P(SAHACAST) [P] = So according to P(AID) = P(BIA) P(A)
P(B) $P(P|SnCnHnST) = \frac{P(SnCnHnST|P)P(P)}{P(SnCnHnST)}$ Similar goer for not playing.

>> For P(SncrHOSTIP) we need to find the "playing "tennin" nown finnt and then "socothest combination. But you won't find SiciHiST occurring at the name time for playing tennis. So, P(SICIHIST) will be O. And for thin the probability will be 0. Ithin in known an "Zeno probability problem"
At Bayen Theorem.

1 So, how do we notive thin problem ? Conditional Probability: given but we forcefully making it that'n why in Naive Bayer > P(ANBNCNDIE) = P(AIE) P(DIE) P(CIE) P(DIE) Now using this law: P(PISOCOHOSTIP) * P(P)

P(GOCOHOST) = P(GOCOHOST) P(FIPISOCOHOST)=P(SOCOHOST) | TP) P(TP)
P(SOCOHOST) - We omit the denominator. =>P(SOCOHOST|P) x P(P) => P(SIP) xP(CIP) xP(HIP) xP(ST) IP) xP(P) You can use the learning $\Rightarrow \frac{2}{9} \times \frac{3}{9} \times \frac{3}{9} \times \frac{3}{9} \times \frac{9}{14}$ from Side > 0.00 kg >P(SnCnHnSTTTP) x P(TP) => P(SITP) *P(CTTP) * P(HITP) *P(STITP) *P(TP) 3 3/5 × 1/5 × 1/5 × 1/5 × 1/5 × 1/4 = 0.0206 So the player not likely to play termin.