

Nama : Febri Ardana

Nim : 2212500199

| Day | Outlook | Temperature | Humidity | Wind | PlayTennis |
|-----|----------|-------------|----------|--------|------------|
| D1 | Sunny | hot | high | WEAK | no |
| D2 | Sunny | hot | high | STRONG | no |
| D3 | Overcast | hot | high | WEAK | yes |
| D4 | Rain | mild | high | WEAK | yes |
| D5 | Rain | cool | normal | WEAK | yes |
| D6 | Rain | cool | normal | STRONG | no |
| D7 | Overcast | cool | normal | STRONG | yes |
| D8 | Sunny | mild | high | WEAK | no |
| D9 | Sunny | cool | normal | WEAK | yes |
| D10 | Rain | mild | normal | WEAK | yes |
| D11 | Sunny | mild | normal | STRONG | yes |
| D12 | Overcast | mild | high | STRONG | yes |
| D13 | Overcast | hot | normal | WEAK | yes |
| D14 | Rain | mild | high | STRONG | no |

PlayTennis: training examples

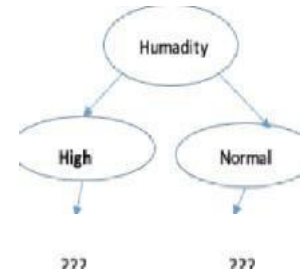
| Day | Outlook | Temperature | Humidity | Wind | PlayTennis |
|-----|----------|-------------|----------|--------|------------|
| D1 | Sunny | Hot | High | Weak | No |
| D2 | Sunny | Hot | High | Strong | No |
| D3 | Overcast | Hot | High | Weak | Yes |
| D4 | Rain | Mild | High | Weak | Yes |
| D5 | Rain | Cool | Normal | Weak | Yes |
| D6 | Rain | Cool | Normal | Strong | No |
| D7 | Overcast | Cool | Normal | Strong | Yes |
| D8 | Sunny | Mild | High | Weak | No |
| D9 | Sunny | Cool | Normal | Weak | Yes |
| D10 | Rain | Mild | Normal | Weak | Yes |
| D11 | Sunny | Mild | Normal | Strong | Yes |
| D12 | Overcast | Mild | High | Strong | Yes |
| D13 | Overcast | Hot | Normal | Weak | Yes |
| D14 | Rain | Mild | High | Strong | No |



konversi Soal
kedalam MS.
Excel

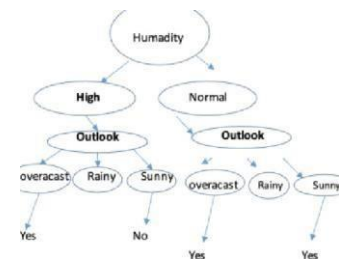
Tabel Perhitungan Entropy dan sain xkar

| NODE | ATREBUT | | 3F4 L KASUS (S) | YA (Si) | TIDAK (5i) | ENTRO PY | GAIN |
|------|--------------|----------|-----------------------|---------|---------------|------------------|-----------------|
| 1.1 | Total | | 14 | 9 | 5 | 0,94 0285959 | |
| | ouzLaox | | | | | 0,261016316 | 0,24674982 |
| | | OVERCAST | 4 | 4 | 0 | | |
| | | RAIN | 5 | 3 | 2 | 0,97D95D5 94 | |
| | | S U NNY | 5 | 2 | 3 | 0,97D95D5 94 | |
| | TEI'4PEwzuRE | | | | | | |
| | | COO L | 4 | 3 | 1 | 0 | |
| | | HOT | 4 | 2 | 2 | 1 | |
| | | NILD | 6 | 4 | 2 | 0 91B295834 | |
| | HUMADFFY | | | | | | 0,44767 1881 |
| | | HIGH | 7 | 3 | ^ | 0,98522B13 6 | |
| | | NORMAL | 7 | 6 | 1 | 0 | |
| | WIND | | | | | | D,D481 2703 |
| | | WEAK | 8 | 6 | 2 | 0,8 1 1278124 | |
| | | STRONG | 6 | 3 | 3 | 1 | |



Tabel Perhitungan Entropy dan Gain Akar

| NODE | ATRIBUT | | JML KASUS (\$) | YA (SI) | TIDAK (SI) | ENTROPY | GAIN |
|------|---------|----------|----------------|---------|------------|-------------|-----------|
| 1.1 | TOTAL | | 7 | 4 | 3 | 0.985288 B | |
| | | OVERCAST | | 2 | 0 | 0 | |
| | | RAIN | 2 | 1 | 1 | 1 | |
| | | | | | | | 00202•m20 |
| | | HOW | 3 | 1 | 2 | 0.918295834 | |
| | | | | | | | |
| | | | | | | | |
| | WIND | | | | | | 00202J420 |
| | | STRONG | 3 | 1 | 2 | 0.918295834 | |



| NODE | ATRIBUT | JML KASUS (S) | YA (Si) | TIDAK (Si) | ENTROPY | GAIN |
|------|-------------|---------------|---------|------------|-------------|-------------|
| 1.2 | TOTAL | 7 | 6 | 1 | 0.591672779 | |
| | OUTLOOK | | | | | 0.198117421 |
| | OVERCAST | 2 | 2 | 0 | 0 | |
| | RAIN | 3 | 2 | 1 | 0.918295634 | |
| | SUNNY | 2 | 2 | 0 | 0 | |
| | TEMPERATURE | | | | | 0.128085279 |
| | COOL | 4 | 3 | 1 | 0.811278124 | |
| | HOT | 1 | 1 | 0 | 0 | |
| | MILD | 2 | 2 | 0 | 0 | |
| | HUMADITY | | | | | 0 |
| | HIGH | 0 | 0 | 0 | 0 | |
| | NORMAL | 7 | 6 | 1 | 0.591672779 | |
| | WIND | | | | | 0.198117421 |
| | WEAK | 4 | 4 | 0 | 0 | |
| | STRONG | 3 | 2 | 1 | 0.918295634 | |