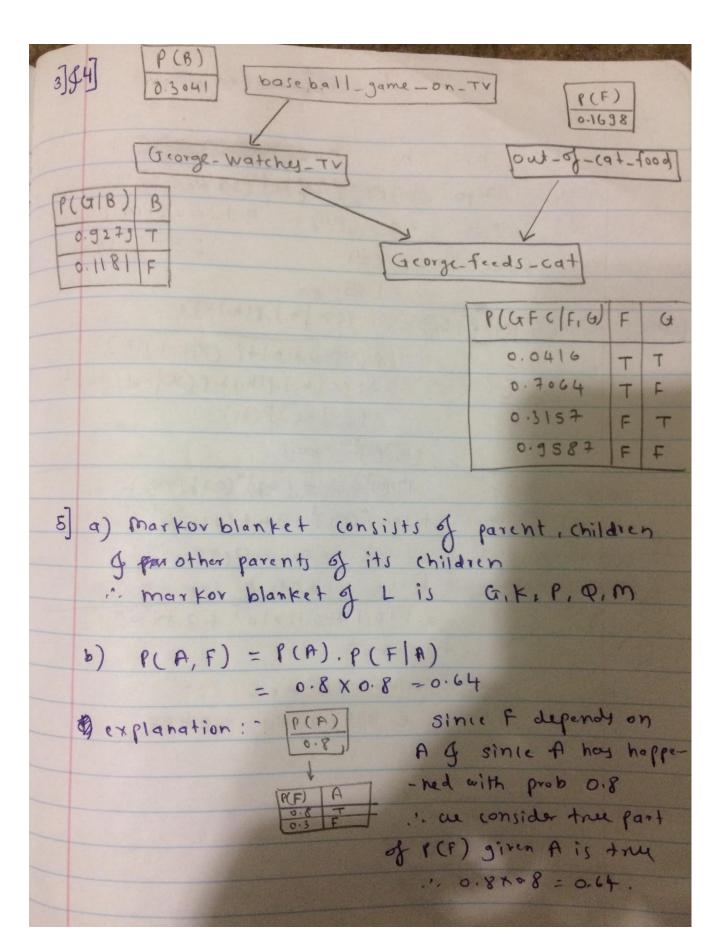
```
\int_{\rho(T)}^{\rho(T)} \frac{80}{m} = 0.2
  P(T < 80/m) = 0.8
  PCT 280/m)=0.1
                   if (all 3 emails of dail) high
   P(m)=0.05 P(s)=0.95
 a) By Bayes thm
       P(m/TL80) = P(T (80/M) P. (M)
             P(TL80/m) P.(m) +P(TL80/5) P.(s)
  0.8x0.05 + 0.1x0.95 = 0.296
        PO(TL80) = 0.8 X 0.05 + 0.1 x 0.95 = 0.135
 b) Probability theat and email also indicates daily high
    under 80 degrees, is P. (T<80)
   P_{i}(m) = P(T \langle 8dm) \times P_{o}(m) = 0.8 \times 0.01
P_{o}(T \langle 10) = 0.135
                FFFFFFFFF = 0.290
           P, (S)= 1-P, (M)= 0.704
       P, (T <80) = P (T <80 | m)P, (m) + P(T <80 | s). P, (S)
               = 0.8x0.296 + 0.1x0,704
               =0.3071
c) Prob of third email indicating daily high under 80
    degrees = P2 (TC80)
           P_(m) = P(T < 80/m) × P, (m) = 0.8 × 0.29 6

P_(T(80)) = 0.307)
```

```
P2(5)=1-P2(M)=0.2300 (M) (00 MP)
  P2 (T(80) = P(T(80|m)P2(m) +P(T(80|S) PCS)
            = 0.8 x 0.77 + 0.1 + 0.23 = 0.639
   .. P(all 3 emails of dail) high = P(Po(TL80)P1(TL80)

under 80 degrees)

P3 (TL80))
                           = PO (TL80) x P1 (7 (80) x P2 (T(8))
                            = 0.131 × 0.307 1× 0.639
       (m) 9 (m/08) 7)9 = (= 80,0265
 27 There die Aotal II Variables,
          A, B., Bz, Bs, B4, Bs, Bc, B7, B8, B9, B10
     A -> 5 values.
  2 1 B. > 7 values, + 20.0 × 8.0 = (08 AT)
a) In joint distribut ue need to store value of
      every combinat"
       : SX7X7X7X7X7X7X7X7X7X7X7
  b) Since each Bi is independent q other Bi
     we need 5 values of A & B, or B, or B2
     = 5 X 10 X 7
2),9-(2/0827)9+=(3150)(10/0827)9-(0827)
        POF. 0x1.0+ 285.0x8.0 3
                      1808.00
or research of place of the pribal library brid
                    (0857) 9 0
 860048-6 (W) 34 (W) 24 (W) = 640038
               (-2)7),7
```



```
d) P(M, no+(c) $ [H] = 7
     BATTE TO
  P(M, not (c) | H) = P(M | H) . P(not (c) | H)
                    = 0.1 x P(H|hot(c)), P(hot(c))
P(H).
                   =0.1 × 0.1 × 0.4
                         P(H(C). P(C)+P(H|not(C)).P(not(C)
                 =0.17 0.04
                         0.6x 0.6+ 0.1x0.4
                 = 0.004
                   0.36+0.04
                = 0.004 = 4x10-3 = 0.01
      In baysian n/w we know that given parent
  grandparent & children are independent of each other
```