

```
= 0.0482
                   0.0482+0.0289
                = 2 2 0.625
X = (gow, football, golf, defence, Offence, wicket, effice, strategy)
 given x = (1,0,0, 1111,0)
   P(politics/x) = P(politics), IT P(xi/politics)
                     os-this is constant for given table, let it be c
     P(politics /x) = c [P(politics): # P(xi/politics)]
  Similarly - P(Spots /x) = C (P(Spots) # P(x: 15pots))
     =) P(x,=11politics) = 2/6, p(x2=0|politics)=1/6, P(x2=0|politics)=5/6
        P(x4=1/politia) = 5/6, p(x5=1/politics) = 5/6, p(x6=1/politics) = 46
        p(xy = 1/politic) = 4/6, p(xy = 0/pditics) = 46
                      P(politics) = 1/2
      .. P(politics/x) = c = 2 (5/6) 4 4/ 1/6) 2
                        = C 54x4
    P(x,=1/8p&K) = 4/6 P(x,=0/8p&K)=2/6, P(x,=0/sp&K) = 5/6
   P(xy=1/spots) = 4/6, p(x5=1/spots) = 16, 12(x6=1/spots) = 46
  P(x7=1/sports) = 0/6, P(x8=0/sports) =5/6
              · · ()(1p8+1/21) = 0
           as P(polikis/x) + P(sp&ts(x) = 1
          =) P(polihos/x) = 1
```