```
Exercise
                              faultis . Cfouly. Cilber
                  Just plain boning
                  entirely predictable and lacks energy
 Training T
                  no supprises and very few laughs
                  very powerfulifit . (+) +11. (+) +17 . (+)
                  the most fun film of the summer
                   prudictable with no fun .
Test
 Collection of vocabulary: Just, plain, boning, entirely, predictable, and
Solution:
   lacks, enengy, no, sumprises, very, few, laughs, powerful
  the, most, fun, film, of, summer
· Prior from training
        P(Ci) = Ncj
    + P(-)=3/5 & P(+)=2/5
· hikelihood from training
       P(wilc) = Count (wi,c)+1
                  (Ewer Court (w, c))+ [V]
              |v| = no. of unique words = 20
     1° ( Predictable/+) = 29 ( 9+20)
      p(predictable | -) = \frac{1+1}{14+20} = \frac{3}{37} = \frac{1}{17}
      P(nol+) = \frac{o+1}{9+20} = \frac{1}{29}
                                      P(fun/-)=0+1=1
       P(nol-) = \frac{1+1}{14+20} = \frac{1}{14}
```

P(fun/+) = 1+1 = 29

· Hence, In test set: . P(-). P(pred/-). P(No/-). P(tun/-) $= \frac{3}{5} \times \frac{2}{34} \times \frac{2}{34} \times \frac{1}{34} = 6.106 \times 10^{-5}$ · P(+). P(pred (+). P(No/+). P(fun/+) = 2 × 1 × 2 q × 2 q on die oldesiden So, we can say that the test document is af negative category most, jun, film, st, summen from busines ((ci) = hici 5/2 = (+) + 8(+) = 3/2 hallow of racely prosp (1)(c) - come (1)(c) 1 N/ 4((0,00) Minos Nove) co - speak ration to our fall : Indice 16/4) : 29 (: 1430) El Po CITAL : (-) algorished