Assignment-4

EE22BTECH11012-A.Chhatrapati

Question 11.16.3.18)In a non-leap year, the probability of having 53 tuesdays or 53 wednesdays is
Solution:
Non-leap year=365days
Since in a week 7 days are present,
365days=52weeks+1day
That 1day can be Sun,Mon,Tue,Wed,Thu,Fri,Sat

$$X = \begin{cases} 1, & \text{if that 1day is tuesday or wednesday} \\ 0, & \text{otherwise} \end{cases}$$

(1)

$$p_X(1) = \frac{2}{7} \tag{2}$$