$$P(+ve) = \frac{10}{18}$$
 $P(-ve) = \frac{8}{18} = 0$

Words. Happy = H, learning = L, NLP = N.

$$P(H|+ve) = \frac{6}{10} = 0.6 \quad P(L|+ve) = \frac{7}{10} = 0.7 P(N|+ve) = \frac{6}{10} = 0.6$$

$$P(H|-ve) = \frac{3}{8} = 0.375, P(L|+ve) = \frac{4}{8} = 0.5, P(N|-ve) = \frac{4}{8} = 0.5$$

P(A) = P(tre).P(H)+ve)P(L)+ve).P(N)+ve)+P(-ve)P(H)-ve).P(N)-ve)

1) New Tweet will be the.

$$P(+ve|HnlnN) = \frac{P(+ve) \cdot P(H+ve) \cdot P(L+ve) \cdot P(N|+ve)}{P(+)}$$

 $P(+ve|HnlnN) = \frac{0.14}{0.817} = 0.7705$

3 New Tweet will be -re.

As the probability of the is greater than -re so the Now tweet is more likely to be classified as the threat.

TABLE NO.2			
		RESPONSE, 2	
Sr.	SCENARIOS email is modeled	(2(n+2), 1	
1	SCENARIOS The proportion of people who respond to a certain email is modeled as a continuous random variable with the probability density function: $f(x) = \frac{2(x+2)}{5}, \text{ where } 0 < x < 2. \text{ Is this a valid pdf?}$	O Yes No 3 (x+21) = +1	
2	A coffee shop tracks the number of loyalty card notes (1) who redeem their free coffee reward on Mondays. The probability distribution of X is $[x, f(x)]$: $[2, 1/10]$, $[3, 1/11]$, $[4, 1/6]$, $[5, 1/7]$. The shop also offers an additional discount (in hundreds) on further purchases, calculated as $g(X) = X + 2$. Find the shop's expected total	$\sum x_{1}(x) = 2.85$ $E(x+2) = 2.85$ $= 3.85$ $\sum (x+2) f(x) = 2.85$	
3	A software engineering team is analyzing the relationship between code compilation time (X) in seconds and model accuracy (Y) as a proportion for a machine learning system. The following statistics are given for a set of experiments: $\sigma_X = 2.5$, $\sigma_Y = 0.70$, $\sigma_{XY} = -1.20$.	$\int_{Xy}^{x} = \frac{\cos(x_1 x)}{\cos x} = \frac{\cos(x_1 x)}{\cos x} = \frac{\cos(x_1 x)}{\cos(x_1 x)} = \frac$	
4	A network administrator is monitoring the time (X) taken to transmit a data packet across different routers in a network. Due to network traffic variations, the transmission time X is a continuous random variable with a probability density function, $f(x) = \frac{1}{b-a} \text{ with } a \le x \le b \text{, for the interval } [-2, 10].$ Calculate and define its probability function.	$f(x)^{2} \frac{1}{b-a}$ $f(x) = \frac{1}{10-(-a)} = \frac{1}{12}$	
	A database server processes read and write queries in parallel. Both query types are randomly distributed, representing the number of queries completed within a fixed 1-second interval. Based on historical logs, the system administrator aims to analyze the	Bivariate	
5	probability distribution of read and write queries to assess system performance and reliability under varying load conditions. How would you represent the distribution: Is this a univariate or joint distribution model? Also, classify it as discrete or continuous.	Discrete	
	distribution model: Also, classify it as an		