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## **Assignment 2**

AI1110: Probability and Random Variables Indian Institute of Techonology Hyderabad

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**Question 12.13.1.2 :** Compute Pr(A|B), if Pr(B) = 0.5 and Pr(AB) = 0.32. **Solution:** 

$$Pr(B) = 0.5 \tag{1}$$

$$Pr(AB) = 0.32 \tag{2}$$

$$Pr(A|B) = \frac{Pr(AB)}{Pr(B)}$$

$$Pr(A|B) = \frac{0.32}{0.5} = 0.64$$
(4)

$$\Pr(A|B) = \frac{0.32}{0.5} = 0.64 \tag{4}$$

$$\therefore \Pr(A|B) = 0.64 \tag{5}$$