

# Assignment 6

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**Abstract**—This document contains the solution for Assignment 6 (CBSE Class 12 Chapter 13 Exercise 13.1 Question 2)

**Question 2:** Compute  $P(A|B)$  if  $P(B) = 0.5$  and  $P(AB) = 0.32$

**Solution :** Given ,

- 1)  $P(B) = 0.5$
- 2)  $P(AB) = 0.32$

We know that,

$$P(A|B) = \frac{P(AB)}{P(B)} \quad (1)$$

Substituting the values, we get,

$$P(A|B) = \frac{0.32}{0.5} \quad (2)$$

$$P(A|B) = 0.64 \quad (3)$$