

# AI1110 Assignment 4

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## [CBSE class 9 Exercise 15.1 Q 7]

To know the opinion of the students about the subject statistics, a survey of 200 students was conducted. The data is recorded in the following table.

Opinion	Number of Students
Like	135
Dislike	65

TABLE I

Find the probability that a student chosen at random

1) Likes Statistics,

**Solution:** Let the opinion of the selected student be denoted by the random variable  $X \in \{0, 1\}$ . where  $X = 0$  represents "Dislike" and  $X = 1$  represents "Like".

The desired probability is given by

$$\Pr(X = 1) = \frac{135}{200} = \frac{27}{40} \quad (1)$$

2) Does not like it.

**Solution:** The desired probability is given by

$$\Pr(X = 0) = \frac{65}{200} = \frac{13}{40} \quad (2)$$