

# AI1110 Assignment 3

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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

(i) Likes Statistics

**Solution:**

Let the opinion of the selected student be denoted by the random variable  $X \in \{Like, Dislike\}$ .

The desired probability is given by

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

(ii) Does not like it

**Solution:**

The desired probability is given by

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