Al1110 Assignment 3

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Outline

Problem Statement

Solution

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CBSE class 10 Probability Exercise 15.1 Q.19:

A child has a die whose six faces show the letters A, B, C, D, E, A. The die is thrown once. What is the probability of getting

- A?
- 2 D?

Solution

Let $X \in \{0, 1, 2, 3, 4\}$ be a random variable such that X is the letter that appears when the die is rolled.

Random Variable (X)	Outcome
X=0	А
X=1	В
X=2	С
X=3	D
X=4	Е

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$$Pr(X = 0) = \frac{\text{No. of favourable outcomes}}{\text{Total number of outcomes}} = \frac{2}{6} = \frac{1}{3}$$

$$Pr(X = 3) = \frac{\text{No. of favourable outcomes}}{\text{Total number of outcomes}} = \frac{1}{6}$$

