



## Session 16

### Assignment 1 Question

# *Session 16: Assignment 1*

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## 1. Introduction

This assignment will help you to consolidate the concepts learnt in the session.

## 2. Problem Statement

Problem Statement 1:

A test is conducted which is consisting of 20 MCQs (multiple choices questions) with every MCQ having its four options out of which only one is correct. Determine the probability that a person undertaking that test has answered exactly 5 questions wrong.

Problem Statement 2:

A die marked A to E is rolled 50 times. Find the probability of getting a “D” exactly 5 times.

Problem Statement 3:

Two balls are drawn at random in succession without replacement from an urn containing 4 red balls and 6 black balls.

Find the probabilities of all the possible outcomes.

Note: Solution submitted via github must contain all the detailed steps.

## 3. Output

N/A