**Assignment 17.3**

# Problem Statement 1:

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.

Answer :

Given the total number of black balls = 6 and total number of red balls = 4.

P (drawing a black ball) = 6/10=3/5

and P (drawing a red ball) = 4/10=2/5

All possible outcomes = 3/5\*2/5 +3/5\*3/5+2/5\*2/5 = .76