**Assignment4.6**

**Problem Statement:**

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:**

Possible outcomes s={ RR, RB, BR, BB }

Probability of getting two red ball P(RR)= \* =

Probability of getting two black ball P(BB)= \* =

Probability of getting first red ball then black ball P(RB)= =

Probability of getting first black ball then red ball P(BR)= =

∑P(of all possible outcomes)=. + + +==**1**