#### 1

# Assignment 1 Ncert Exampler

## Rajeev Kumar EE22BTECH11042

### I. Question 10.13.2.10

I toss three coins together. The possible outcomes are no heads, 1 heads, 2 heads and 3 heads. So, Isay that probability of no heads is 1/4. What's wrong with this conclusion

#### **Solution:**

Given, three coins are tossed together.

Total outcomes  $T(E) = 2^3 = 8$ 

(T,T,T), (T,T,H), (T,H,T), (T,H,H), (H,T,T), (H,T,H), (H,H,H) and (H,H,H) are the favourable outcomes for this event.

 $\therefore$  Pr (getting no heads) =  $\frac{1}{8}$ 

Hence, the given statement is wrong  $\left(\because \frac{1}{8} \neq \frac{1}{4}\right)$