## Probability

S.n o	Term	Description
1	Empirical probability	It is a probability of event which is calculated based on experiments
		$Emperical Probability = \frac{No.of trails which expected outcome}{Total number of trails}$
		Example:
		A coin is tossed 1000 times; we get 499 times head and 501 times tail,
		So empirical or experimental probability of getting head is calculated as
		$p = \frac{499}{1000} = 0.499$
		<i>Empirical probability depends on experiment and different will get different values based on the experiment</i>
2	Important point about events	If the event A, B, C covers the entire possible outcome in the experiment. Then,
		P(A)+P(B)+P(C) =1
3	impossible event	The probability of an event (U) which is impossible to occur is 0. Such an event is called an <b>impossible event P (U)=0</b>
4	Sure or certain event	The probability of an event (X) which is sure (or certain) to occur is 1. Such an event is called a <b>sure event or a</b>
		certain event P(X) =1
5	Probability of any event	Probability of any event can be as $0 \le P(E) \le 1$

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