

# Sample L<sup>A</sup>T<sub>E</sub>X Document with a Figure

RAMBHA SATVIK - EE22BTECH11043

**Question:** If you toss a coin 6 times and it comes down heads on each occasion. Can you say that the probability of getting a head is 1? Give reasons.

**Solution:** No. An outcome of getting head every-time for six coin tosses is just one of  $2^6$  possibilities as the sample space has 2 possible outcomes. The next time you toss a coin both heads and tails are equally likely to come and the previous outcomes don't affect it as it is an independent event.