Advantages of Simulation

- i). With the help of simulation, we can find the critical situation easily.
- **ii).** New policies, Operating procedures, Information flows, etc. can be explored without disrupting the ongoing operation of the real system.
- **iii).** New Hardware Designs, Physical Layouts, transportation Systems, etc. can be tested without committing resources for their acquisition.
- **iv).** Time can be compressed or expanded to allow for a speed up or slow down of the phenomenon (clock is self-control).
- **v).** Insight can be obtained about the interaction of variables and important variables to the performance.
- **vi).** Bottleneck analysis can be performed to discover where work-in-process the system is delayed.
- **vii).** A simulation study can help in understanding how the system operates or how a system will work.
- viii). Simulation helps to give the answer of what if type of questions.
- ix). It is useful for sensitivity analysis of the complex system.
- x). It is suitable to analyze large and complex real-life problems.