

Distinguish, differentiate, compare and explain what is the Difference between analytical and computational modeling. Comparison and Differences.

## **Differences between analytical and computational modeling**

The analytical model allows the components to deal with the concurrency given during the process. It also handles the quantitative constraints that might come in between the components. Whereas, computational model deal with the non-deterministic abstraction hierarchy. They have computational complexity to deal with the concurrency. It allows to put the physical constraints.

Analytical models can't deal with the partial and incremental specifications that are non-deterministic. It is also not good in controlling the computation complexity used in the hardware design. Whereas, Computational model can, deal with constraints easily and it provides an upgradeable solution.

The analytical model is the equation-based model. It doesn't have the time-sharing and parallelism concepts. Whereas, time-sharing and parallelism are used, in the abstract method. They provide the theories of complexity and real-time evaluation.

Weather is a result of atmospheric conditions at a certain place and time. Climate is the result of average atmospheric conditions in a certain region over a long period of time. For example, if we say it is hot or raining on a particular day, we are talking about the weather. But, if we say a particular place always has hot summers or rainy winters, we are talking about its climate. Climatology is the science of climate, the study of the climatic elements and the factors that affect it. Meteorology is the study of atmospheric phenomena.