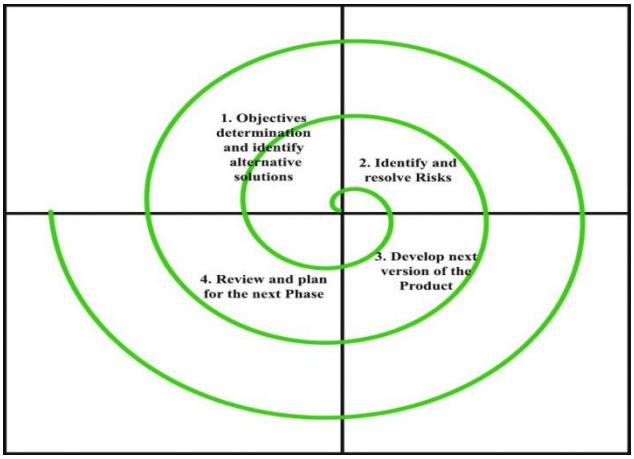
Various SDLC models

- **Classical Waterfall Model:** Classical waterfall model is the basic SDLC model. It is very simple but idealistic. This model considers that once phase can be started after the completion of previous phase. That is the output of one phase will become the input to another phase. The popular shortcoming that it carrying is that it do not provide feedback path. We can't go back and can fix the mistake of previous phase.

- **Iterative Waterfall Model:** Iterative Waterfall model can be thought of as incorporating the necessary changes to classical waterfall model. The iterative waterfall model provides the feedback path to its previous phases.

- **Spiral Model:** Spiral model is one of the most important software development models which provide support for risk handling. In its diagrammatic representation, it looks like a spiral with many numbers of loops. Although the exact number of loops are unknown. The most important feature of spiral model is handling the unknown risks after the project will be started.



Spiral Model

- **Prototype Model:** This model also supports risk handling but the risk must be identified before starting the development of the project. Prototype model is defined as the process of developing a working replication of a product. It offers a small scale facsimile of the

end product. The shortcoming that it have is its time consumption and difficulties to determine the risk in advance.

- **Software Engineering Agile Model:** Iterative Waterfall Model was popular but it had certain limitation. The main problem was handling the change request. So the agile model was primarily designed to adapt to these changes request.

- **Big-Bang-Model:** Big bang model is an SDLC model that starts from nothing. It is the simplest model in SDLC, as it requires almost no planning. However, it requires a lot of funds and coding and take more time .It is named after the Big bang galaxy.

- **V-Model:** V-model is highly disciplined SDLC model in which there is testing phase parallel to the development phase. It is also knows as verification and validation model. It is an extension of waterfall model.