**Q.1 what is SDLC**

Ans. Software development life cycle is essential a series of steps or phases that provide a model for the development and lifecycle management of an application of piece of software.

**Different phases of SDLC that are** :

1. **Requirement Gathering:**

* feature
* Usage scenarios
* Requirement will change
* Although requirements may be documented in written form, they may be incomplete, unambiguous or even incorrect.

Functional and Non-functional

1. **Analysis Phase** :

* Ideally**,** the document stales in a clear and precise fashion what is to be built.
* The analysis represents the “what” phase.
* The requirement documentaries to capture the requirements from the customer’s perception.

1. **Design Phase :**

* Design architecture document
* Implementation plan
* Critical priority analysis
* Performance analysis
* Test plan

1. **Implementation phase :**

* In the implementation phase the team builds the component either from scratch or by compositions.
* The implementation phase deals with issue of quality, performance, baseline, libraries and debugging.

1. **Testing phase :**

* Simply stated quality is very important.
* It is much easier to explain to a customer why there is a missing feature than to explain to a customer why the product takes quality.
* The customer satisfied with the quality of a product remain loyal and wait for a new functionality in the next version.
* Quality is distinguishing attribute a system indicating the degree of excellence.

**Q.2. what is software testing**

**Ans.**