

4/10

Describe Class Based modeling in detail.

Ans:- Class based modeling represents the objects that the system will manipulate, the operations that will be applied to objects, and the collaborations that occur between the classes that are defined.

(1) Identifies Analysis classes.

Analysis classes used themselves in one of the following ~~ways~~ ways:-

⇒ External entities:- that produce or consume information to be used by a computer-based system.

⇒ Things:- (eg:- reports, letters) that are part of the information domain of the problem.

⇒ Role:- (eg:- manager, salesperson) played by people who interact with the system.

⇒ Organizational-unit:- (eg:- group, team) that are relevant to an application.

## 1.1) Specifying Attributes:-

Attributes describe a class that has been selected for inclusion in the requirements model. It is the attribute that defines the class - that clarify 'what is meant by the class in the context of problem space'.

## 1.2) Defining Operations:-

Operations define the behaviour of the object. Although many different types of operations exist, they can generally be divided into four broad categories -

- 1) Operations that <sup>manipulates</sup> data in some way.
- 2) Operations that perform a computation.
- 3) Operations that inquire the state of an object.
- 4) Operations that monitor an object for the occurrence of a controlling event.



## 1. Analysis Packages:-

An important part of analysis modeling is categorization. That is, various elements of the analysis model (eg. use cases, analysis cases) are categorized in a manner that packages them as a grouping—called an analysis packages.