**Aim: Development of structural diagrams for projects .**

**Class Diagram :**

Class Diagrams describe the static structure of a system, or how it is structured rather than how it behaves.

It shows the existence of classes and their relationships in the logical view of a system

These diagrams contain the following elements.

– Classes and their structure

– Association, aggregation, dependency, relationships

– Multiplicity and navigation indicators

– Role names and inheritance

**Tools USED: starUML**

**Procedure**: 1) The structural view diagram: Class diagram.

* 1. Identify various elements such as classes, member variables, member functions etc. of the class diagram.

1. Draw the class diagram as per the norms.

**Ex-1 : Draw the Class diagrams for Student Registration System Description :**

**The university has many colleges and each college have many programmes.**

**Each programme consists of many courses.**

**Faculties are assigned to college, and these faculties teach many courses.**

**At least one faculty works as head of college.**

**One condition for student registration is that one student per programme can only be registered in university.**

**Relationships :**

**The university has many colleges**

**Each college have many programmes, Each programme consists of many courses.**

**Faculties are assigned to college, and these faculties teach many courses.**

**At least one faculty works as head of college.**

**One condition for student registration is that one student per programme can only be registered in university.**

*The University and college classes have one to many relationships.*

*While college and Programme classes have many to many relationships.*

*Both college and Programme classes stats that many colleges contain many programmes***.**

