**EXPERIMENT 1**

**ER DIAGRAM OF COLLEGE DATABASE**

**Aim:** Draw an ER diagram of a college database.

**Components of an ER diagram:**

* **Entity:** An entity can be a person, place, event, or object that is relevant to a given system. Represented by a rectangle.
* **Weak entity:** A weak entity is an entity that depends on the existence of another entity. Represented by a double rectangle.
* **Attribute:** An attribute is a property, trait, or characteristic of an entity, relationship, or another attribute. Represented by oval shapes.
* [**Multivalued attribute:**](https://creately.com/diagram-type/objects/database-design/multivalued-attribute) If an attribute can have more than one value it is called a multivalued attribute. Represented by double ovals.
* **Derived attribute:** An attribute based on another attribute. Represented by dotted ovals.
* **Relationship:** A relationship describes how entities interact. Represented by diamond shape.

