1. Describe the following terms.
   * 1. **Entity** - person, organization, object type about which information is stored
     2. **Entity set** - set that represents a group of entities of a similar type
     3. **Domain of an attribute** - data type with optional constraints of a attribute
   1. **Composite attribute** – made up for more than one simple attribute
   2. **Multivalued attribute** - attribute which consists of more than 1 values
   3. **Derived attribute** – attribute do not exit in the physical database but their values are derived from the other attributes presents in the database
2. Rent-a-car is a Car rental company. The managing director of Rent-a-car requires the following information.

“Display all Nissan, blue, Sedans, manufactured in 2005”

* 1. What is the entity you should consider in order to answer the above query. Give suitable attributes for the entity you named.

**Car – Color, Model, Car-type, Manufactured year**

* 1. Can you suggest a suitable primary key for the entity you named? Are there any multi valued attributes?

**There are no suitable primary key to uniquely identify a record**

**No there are know multivalued attributes**

1. Consider the entity STUDENT in the SLIIT student information system.
   1. List the attributes.

**Name, DOB, Phone number, Address, Al results, Ol results, NIC, IT number**

* 1. Identify a suitable primary key.

**IT Number**

* 1. Identify a possible composite key.

**Phone Number, NIC**

* 1. Identify a possible candidate key.

**Address**

* 1. Why is it not considered as the primary key? Most relevant to a given scenario (upon your own argument as suitable)

**There can be 2 or more students from same address**

1. Name some ER diagramming conventions.

\*\*End of the Tutorial\*\*