**ASSIGNMENT NO. 6**

**Aim**

Design Persistent Objects using JDO and implement min 10 queries on objects using JDOQL in ObjectDB NOSQL DATABASE

**Objective**

Students should create persistent objects and implement queries on objects.

**Theory**

**OODB**

A database system that incorporates all the important object-oriented concepts

Some additional features

Unique Object identifiers

Persistent object handling

Characteristics of OODB

Direct corresondence between realworld and database objects.

OID (Object Identifier)

Extensible

Supports Encapsulation

Exhibit Inheritance

Object Identity

System Generated and unique.

Can not be changed or deleted.

Can never be reused.

Independent of the values of its attributes.

Invisible to the user.

**JDO**

API for “ordinary” Java object persistence

Advantages

* Transparent object persistence, JDO makes use of minimum constraints for building classes and no special data access language is required.
* It can be used in java environment independent of relational or object database environent
* Does no require special code in java for managing persistency.
* JDO applications view data and relationships as a class hierarchy
* It is independent of data store.
* Good portability between relational and object data store.