```
1. HibernateWithJavaProjectXMLBase
        a. Create new Java Project
        b. Add all jar files
        c. Create two packages.
               one for entities - com.entities
               one for main class - com.driver
        d. Create POJO/Bean/Model/Entity class CustomerDetails in com.entities
        -----CustomerDetails-----
        public class CustomerDetails {
        private int cid;
        private String cname;
        private String caddress;
        public String getCname() {
               return cname;
       }
        public void setCname(String cname) {
               this.cname = cname;
       }
        public int getCid() {
               return cid;
       }
        public void setCid(int cid) {
               this.cid = cid;
       }
        public String getCaddress() {
               return caddress;
       }
        public void setCaddress(String caddress) {
               this.caddress = caddress;
       }
```

}

```
e. add code in main method
       public static void main(String[] args) {
               CustomerDetails obj = new CustomerDetails();
               Configuration conf = new Configuration();
               conf.configure();
               SessionFactory sf = conf.buildSessionFactory();
               Session session = sf.openSession();
               Transaction trans = session.beginTransaction();
               obj.setCname("Paras");
               obj.setCaddress("Banglore");
               session.save(obj);
               trans.commit();
       }
       f.In src add Hibernate configuration file.
               name and extenstion should be
               "hibernate.cfg.xml"
       Template -->
               Code for hibernate.cfg.xml
               <?xml version="1.0" encoding="UTF-8"?>
               <!DOCTYPE hibernate-configuration SYSTEM</pre>
               "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
               <hibernate-configuration>
               <session-factory>
               property name =
"hibernate.dialect">org.hibernate.dialect.SQLServerDialect</property>
               cproperty name =
"hibernate.connection.driver_class">com.microsoft.sqlserver.jdbc.SQLServerDriver</property>
```

<!-- Assume test is the database name -->

```
cproperty name =
"hibernate.connection.url">jdbc:sqlserver://localhost;databaseName=emp;instanceName=SQLEXPR
ESS2019;</property>
              cproperty name = "hibernate.connection.username">sa/property>
              connection.password">password_123
              cproperty name="hibernate.hbm2ddl.auto">update/property>
              <!-- List of XML mapping files -->
              <mapping resource = "CustomerDetails.hbm.xml"/>
              </session-factory>
              </hibernate-configuration>
       g. hibernate-mapping
              Now, we will have to map our pojo class in order to
              create table in database.
              "CustomerDetails.hbm.xml"
              <?xml version="1.0" encoding="UTF-8"?>
              <!DOCTYPE hibernate-mapping PUBLIC
              "-//Hibernate/Hibernate Mapping DTD//EN"
              "http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">
              <hibernate-mapping>
              <class name = "com.entities.CustomerDetails" table = "CusomerDetails">
              <meta attribute = "class-description">
       This class contains the Customer detail.
              </meta>
              <id name = "cid" type = "int" column = "cid">
       <generator class="native"/>
              </id>
```

```
column = "first_name" type = "string"/>
              column = "last_name" type = "string"/>
              </class>
              </hibernate-mapping>
2. HibernateWithJavaProjectAnnotationBase
       a. Create new project
       b. Add all jar files
       c. Create two packages.
              one for entities - com.entities
              one for main class - com.driver
       d. Create POJO/Bean/Model/Entity class CustomerDetails in com.entities
       -----CustomerDetails-----
       import javax.persistence.Column;
       import javax.persistence.Entity;
       import javax.persistence.GeneratedValue;
       import javax.persistence.GenerationType;
       import javax.persistence.ld;
       import javax.persistence.Table;
       @Entity
       @Table(name="CustDetails")
       public class CustomerDetails {
       @GeneratedValue(strategy = GenerationType.AUTO)
       @Column(name = "CustId")
       private int cid;
       @Column(name = "CustName")
       private String cname;
```

@Id

@Column(name = "CustAddress")

```
private String caddress;
        public String getCname() {
                return cname;
        }
        public void setCname(String cname) {
                this.cname = cname;
        }
        public int getCid() {
                return cid;
        }
        public void setCid(int cid) {
                this.cid = cid;
        }
        public String getCaddress() {
                return caddress;
        }
        public void setCaddress(String caddress) {
                this.caddress = caddress;
        }
}
        e. add code in main method
        public static void main(String[] args) {
                CustomerDetails obj = new CustomerDetails();
                Configuration conf = new Configuration();
                conf.configure();
                SessionFactory sf = conf.buildSessionFactory();
                Session session = sf.openSession();
                Transaction trans = session.beginTransaction();
                obj.setCname("Paras");
                obj.setCaddress("Banglore");
```

```
trans.commit();
       }
       f.In src add Hibernate configuration file.
              name and extenstion should be
              "hibernate.cfg.xml"
       Template -->
              Code for hibernate.cfg.xml
              <?xml version="1.0" encoding="UTF-8"?>
              <!DOCTYPE hibernate-configuration SYSTEM</pre>
              "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
              <hibernate-configuration>
              <session-factory>
              cproperty name =
"hibernate.dialect">org.hibernate.dialect.SQLServerDialect</property>
              cproperty name =
"hibernate.connection.driver_class">com.microsoft.sqlserver.jdbc.SQLServerDriver</property>
               <!-- Assume test is the database name -->
              property name =
"hibernate.connection.url">jdbc:sqlserver://localhost;databaseName=emp;instanceName=SQLEXPR
ESS2019;</property>
              property name = "hibernate.connection.username">sa
              connection.password">password_123
              cproperty name="hibernate.hbm2ddl.auto">update/property>
              <!-- List of XML mapping files -->
              <mapping class = "com.entities.CustomerDetails"/>
              </session-factory>
              </hibernate-configuration>
```

session.save(obj);

## 3. HibernateWithMavenProjectXML/AnnotationBase a. create maven project b. add dependencies for hibernate c. add dependency for SQL server d. use code from previous demos. <!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-core --> <dependency> <groupId>org.hibernate <artifactId>hibernate-core</artifactId> <version>5.6.14.Final </dependency> <!-- https://mvnrepository.com/artifact/com.microsoft.sqlserver/mssql-jdbc --> <dependency> <groupId>com.microsoft.sqlserver</groupId> <artifactId>mssql-jdbc</artifactId> <version>11.2.2.jre18 </dependency>

</dependencies>