SimpliLearn:

Practise Project: 3

• <u>Create a servlet-based web application that shows a form to add new products. A MySQL database will be created to store product data. The form data will be validated, and a row will be added to the database. All database processing will be done using Hibernate.</u>

Source Code:

```
MainProduct.java
package com;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
import org.hibernate.cfg.Configuration;
public class MainProduct {
       public static void main(String[] args) {
               Configuration configuration=new Configuration().configure();
            configuration.addAnnotatedClass(DataBaseProducts.class);
            StandardServiceRegistryBuilder builder=new
StandardServiceRegistryBuilder().applySettings(configuration.getProperties ());
            SessionFactory factory= configuration.buildSessionFactory(builder.build());
            Session session=factory.openSession();
            Transaction transaction=session.beginTransaction();
            DataBaseProducts p1=new DataBaseProducts("Asus-Laptop",101,120000);
            session.save(p1);
            System.out.println("deatils"+p1);
            transaction.commit();
            session.close();
```

```
}
```

DataBaseProduct.java

}

```
package com;
import javax.persistence.Entity;
import javax.persistence.ld;
import javax.persistence.Table;
@Table
@Entity
public class DataBaseProducts {
       @ld
 private String ProductName;
  private int ProductId;
 private int productPrice;
public DataBaseProducts(String productName, int productId, int productPrice) {
       super();
       ProductName = productName;
       ProductId = productId;
       this.productPrice = productPrice;
}
@Override
public String toString() {
       return "DataBaseProducts [ProductName=" + ProductName + ", ProductId=" + ProductId
+ ", productPrice="
                     + productPrice + "]";
public String getProductName() {
       return ProductName;
public void setProductName(String productName) {
       ProductName = productName;
public int getProductId() {
       return ProductId;
}
```

```
public void setProductId(int productId) {
      ProductId = productId;
public int getProductPrice() {
      return productPrice;
public void setProductPrice(int productPrice) {
      this.productPrice = productPrice;
}
hibernate.cfg.xml
<?xml version='1.0' encoding='utf-8'?>
<!DOCTYPE hibernate-configuration PUBLIC</p>
    "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
    "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
  <session-factory>
    <!-- Database connection settings -->
    property
name="connection.driver_class">oracle.jdbc.driver.OracleDriver</property>
    property
name="connection.url">jdbc:mysql://localhost:3306/addproduct:xe</property>
    connection.username
    property name="connection.password">ramani44/property>
    <!-- JDBC connection pool (use the built-in) -->
    connection.pool_size">1
    <!-- SQL dialect -->
    property
name="dialect">org.hibernate.dialect.Oracle10gDialect</property>
    <!-- Disable the second-level cache -->
    property
name="cache.provider_class">org.hibernate.cache.NoCacheProvider</property>
    <!-- Echo all executed SQL to stdout -->
    cproperty name="show">
<!-- Echo all executed SQL to stdout -->
```

OutPut

