Codes:-

MySql Code:-

```
CREATE DATABASE IF NOT EXISTS product_db;

USE product_db;


-- Create the product table

CREATE TABLE IF NOT EXISTS product (

   id INT AUTO_INCREMENT PRIMARY KEY,

   name VARCHAR(255) NOT NULL,

   description VARCHAR(255),

   price DECIMAL(10, 2) NOT NULL

);

SELECT * FROM product;
```

Index.jsp:-

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Add Product</title>
</head>
<body>
    <h1>Add Product</h1>
    <form action="addProduct" method="post">
        <label>Name:</label>
        <input type="text" name="name" required><br>
        <label>Description:</label>
        <input type="text" name="description"><br>
        <label>Price:</label>
        <input type="number" name="price" step="0.01" required><br>
        <input type="submit" value="Add Product">
    </form>
</body>
</html>
```

Product.hbm.xml

```
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
        "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
<hibernate-mapping>
    <class name="com.example.model.Product" table="product">
        <id name="id" column="id">
            <generator class="identity"/>
        </id>
        <property name="name" column="name"/>
        <property name="description" column="description"/>
        <property name="price" column="price"/>
    </class>
</hibernate-mapping>
```

hibernate.cfg.xml

```
<!DOCTYPE hibernate-configuration PUBLIC
        "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
        "http://hibernate.sourceforge.net/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
    <session-factory>
        <!-- Database connection settings -->
        <property name="connection.driver_class">com.mysql.cj.jdbc.Driver</property>
        <property name="connection.url">jdbc:mysql://localhost:3306/product_db</property>
        <property name="connection.username">root</property>
        <property name="connection.password">Satti@2001</property>

        <!-- JDBC connection pool settings -->
        <property name="connection.pool_size">1</property>

        <!-- SQL dialect -->
        <property name="dialect">org.hibernate.dialect.MySQLDialect</property>
        <!-- Enable Hibernate's automatic session context management -->
        <property name="current_session_context_class">thread</property>

        <!-- Disable the second-level cache -->
        <property
name="cache.provider_class">org.hibernate.cache.NoCacheProvider</property>

        <!-- Echo all executed SQL to stdout -->
        <property name="show_sql">true</property>

        <!-- Drop and re-create the database schema on startup -->
        <property name="hbm2ddl.auto">update</property>

        <!-- Mapping files -->
        <mapping resource="Product.hbm.xml"/>
    </session-factory>
</hibernate-configuration>
```

Product.java

```
package com.example.model;

public class Product {
    private int id;
    private String name;
    private String description;
    private double price;

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }
    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public double getPrice() {
        return price;
    }

    public void setPrice(double price) {
        this.price = price;
    }
}
```

AddProduct.java

```
import com.example.model.Product;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import org.hibernate.cfg.Configuration;


import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import java.io.IOException;


@WebServlet("/addProduct")
```

```
public class AddProduct extends HttpServlet {
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        String name = request.getParameter("name");
        String description = request.getParameter("description");
        double price = Double.parseDouble(request.getParameter("price"));

        Product product = new Product();
        product.setName(name);
        product.setDescription(description);
        product.setPrice(price);

        SessionFactory sessionFactory = new
Configuration().configure().buildSessionFactory();
        Session session = sessionFactory.openSession();
        Transaction transaction = session.beginTransaction();

        session.save(product);

        transaction.commit();
        session.close();

        response.sendRedirect("index.jsp");
    }
}
```

Web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd"
         version="4.0">

    <servlet>
        <servlet-name>AddServlet</servlet-name>
        <servlet-class>com.example.servlet.AddProductServlet</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>AddServlet</servlet-name>
        <url-pattern>/addProductServlet</url-pattern>
    </servlet-mapping>

    <servlet>
        <servlet-name>AnotherServlet</servlet-name>
        <servlet-class>com.example.servlet.AnotherServlet</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>AnotherServlet</servlet-name>
        <url-pattern>/anotherServlet</url-pattern>
    </servlet-mapping>

    <!-- Other servlet mappings -->

</web-app>
```