## Retrieving the Product Details Using the Product ID.

## Source code:

**Index.html**

```html
<!DOCTYPE html>
<html>
<head>
    <title>Product Details</title>
</head>
<body>
    <h1>Product Details</h1>
    <form action="ProductDetails" method="GET">
        Enter ProductID: <input type="text" id="product_ID"
name="product_ID">
        <button type="submit">Get Details</button>
    </form>
</body>
</html>
```

**Product Servlet:**

```java
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;


@WebServlet("/ProductServlet")
public class ProductServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    String DB_URL = "jdbc:mysql://localhost:3306/productddetails";
    String DB_USER = "root";
    String DB_PASSWORD = "Lokeshmudhiraj@25";

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        // Get the product ID from the request parameter
        String productId = request.getParameter("product_ID"); // Updated
parameter name

        // Initialize the database connection and prepared statement
        Connection conn = null;
        PreparedStatement stmt = null;

        // Create a PrintWriter to write the response
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
```

```java
        try {
            // Load the JDBC driver
            Class.forName("com.mysql.cj.jdbc.Driver");

            // Establish the database connection
            conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/productddetails","
root","Lokeshmudhiraj@25");


            // Prepare the SQL query to retrieve product details using the
product ID
            String sql = "SELECT * FROM product WHERE product_ID = ?";
            stmt = conn.prepareStatement(sql);
            stmt.setString(1, productId);

            // Execute the query and retrieve the result set
            ResultSet rs = stmt.executeQuery();

            // Check if the product is found
            if (rs.next()) {
                int productID = rs.getInt("product_ID");
                String productName = rs.getString("product_Name");
                double productPrice = rs.getDouble("product_Price");
                String productDescription =
rs.getString("product_Description");

                // Display the product details
                out.println("<h2>Product Details:</h2>");
                out.println("<p>Product ID: " + productID + "</p>");
                out.println("<p>Product Name: " + productName + "</p>");
                out.println("<p>Product Price: " + productPrice + "</p>");
                out.println("<p>Product Description: " + productDescription
+ "</p>");
            } else {
                // Product not found, display an error message
                out.println("<h2>Error:</h2>");
                out.println("<p>Product not found.</p>");
            }

            // Close the result set, statement, and connection
            rs.close();
            stmt.close();
            conn.close();
        } catch (SQLException | ClassNotFoundException e) {
            e.printStackTrace();
            // Handle any errors that occur during the database connection
or query execution
            out.println("<h2>Error:</h2>");
            out.println("<p>Failed to retrieve product details.</p>");
        } finally {
            out.close();
        }
    }

    }
```