**Practical 8**

SWITCH CASE (All operations)

**CODE –**

package pr8\_14;

import java.sql.\*;

import java.util.\*;

public class switchCase {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/demo\_a1", "root", "root");

Statement stm = con.createStatement();

while (true) {

System.out.println("\nMenu:");

System.out.println("1. Insert");

System.out.println("2. Update");

System.out.println("3. Delete");

System.out.println("4. Display");

System.out.println("5. Exit");

System.out.print("Enter your choice: ");

int choice = sc.nextInt();

sc.nextLine();

switch (choice) {

case 1:

System.out.print("Enter pid: ");

int pidInsert = sc.nextInt();

sc.nextLine();

System.out.print("Enter pname: ");

String pnameInsert = sc.nextLine();

System.out.print("Enter price: ");

int priceInsert = sc.nextInt();

sc.nextLine();

String insertSQL = "INSERT INTO product VALUES (" + pidInsert + ", '" + pnameInsert + "', " + priceInsert + ")";

System.out.println("Record inserted successfully.");

int insertCount = stm.executeUpdate(insertSQL);

break;

case 2:

System.out.print("Enter pid to update: ");

int pidUpdate = sc.nextInt();

sc.nextLine();

System.out.print("Enter new pname: ");

String pnameUpdate = sc.nextLine();

System.out.print("Enter new price: ");

int priceUpdate = sc.nextInt();

sc.nextLine();

String updateSQL = "UPDATE product SET pname = '" + pnameUpdate + "', price = " + priceUpdate + " WHERE pid = " + pidUpdate;

System.out.println("Record updated successfully.");

int updateCount = stm.executeUpdate(updateSQL);

break;

case 3:

System.out.print("Enter pid to delete: ");

int pidDelete = sc.nextInt();

sc.nextLine();

String deleteSQL = "DELETE FROM product WHERE pid = " + pidDelete;

System.out.println("Record deleted successfully.");

int deleteCount = stm.executeUpdate(deleteSQL);

break;

case 4:

ResultSet rs = stm.executeQuery("SELECT \* FROM product");

System.out.println("Product Table:");

while (rs.next()) {

System.out.println("Pid: " + rs.getInt("pid"));

System.out.println("Pname: " + rs.getString("pname"));

System.out.println("Price: " + rs.getInt("price"));

}

rs.close();

break;

case 5:

System.out.println("Exiting...");

stm.close();

con.close();

sc.close();

System.exit(0);

break;

default:

System.out.println("Invalid choice! Please enter 1-5.");

}

}

} catch (Exception e) {

System.out.println("Error: " + e);

}

}

}

**OUTPUT –**

Menu:

1. Insert

2. Update

3. Delete

4. Display

5. Exit

Enter your choice: 1

Enter pid: 101

Enter pname: Milk

Enter price: 78

Record inserted successfully.

Menu:

1. Insert

2. Update

3. Delete

4. Display

5. Exit

Enter your choice: 1

Enter pid: 102

Enter pname: Biscuits

Enter price: 50

Record inserted successfully.

Menu:

1. Insert

2. Update

3. Delete

4. Display

5. Exit

Enter your choice: 1

Enter pid: 103

Enter pname: Maggie

Enter price: 56

Record inserted successfully.

Menu:

1. Insert

2. Update

3. Delete

4. Display

5. Exit

Enter your choice: 1

Enter pid: 104

Enter pname: Chips

Enter price: 40

Record inserted successfully.

Menu:

1. Insert

2. Update

3. Delete

4. Display

5. Exit

Enter your choice: 2

Enter pid to update: 102

Enter new pname: Malkist

Enter new price: 88

Record updated successfully.

Menu:

1. Insert

2. Update

3. Delete

4. Display

5. Exit

Enter your choice: 3

Enter pid to delete: 104

Record deleted successfully.

Menu:

1. Insert

2. Update

3. Delete

4. Display

5. Exit

Enter your choice: 4

Product Table:

Pid: 101

Pname: Milk

Price: 78

Pid: 102

Pname: Malkist

Price: 88

Pid: 103

Pname: Maggie

Price: 56

Menu:

1. Insert

2. Update

3. Delete

4. Display

5. Exit

Enter your choice: 5

Exiting...