AKASH KUMAR BANIK

24MCA0242

DATE: 12-SEP-2024

Q1:

CODE:

```
package databasedemo;

import java.sql.*;

import java.util.Scanner;

public class DatabaseDemo {

    static Connection con;

    static Statement st;

    static String url = "jdbc:derby://localhost:1527/demo";

    static String uname = "akash";

    static String pwd = "akash";

    public static void main(String[] args) {

        int n,emp_id,basic_pay,da,ded,ns;

        String emp_name;

        try{

            con = DriverManager.getConnection(url,uname,pwd);

            st = con.createStatement();

            Scanner sc = new Scanner(System.in);
```

```java
System.out.println("Enter the Employee ID: ");

emp_id=sc.nextInt();

sc.nextLine();

System.out.println("Enter the Employee Name: ");

emp_name=sc.nextLine();

System.out.println("Enter the Basic Pay: ");

basic_pay=sc.nextInt();

System.out.println("Enter the Dearness Allowance: ");

da=sc.nextInt();

System.out.println("Enter the deductions(DED): ");

ded=sc.nextInt();

ns=basic_pay+da-ded;

String query = "insert into employee values("+emp_id+", '"+emp_name+"',
"+basic_pay+", "+da+", "+ded+", "+ns+")";

n = st.executeUpdate(query);

if(n>0 )

    System.out.println("1 new record inserted");

else

    System.out.println("Error in insertion");

}catch(SQLException e){

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

}
```
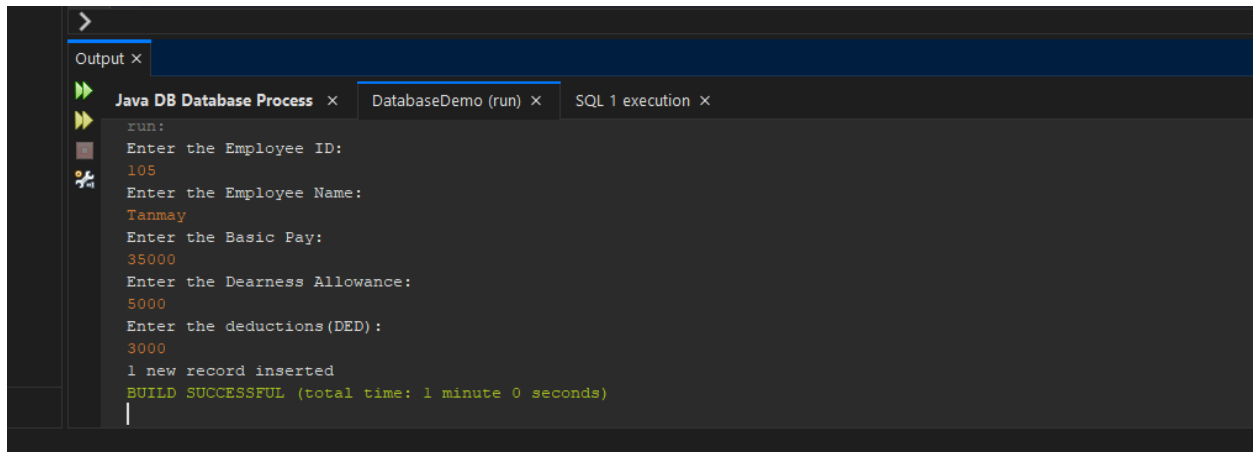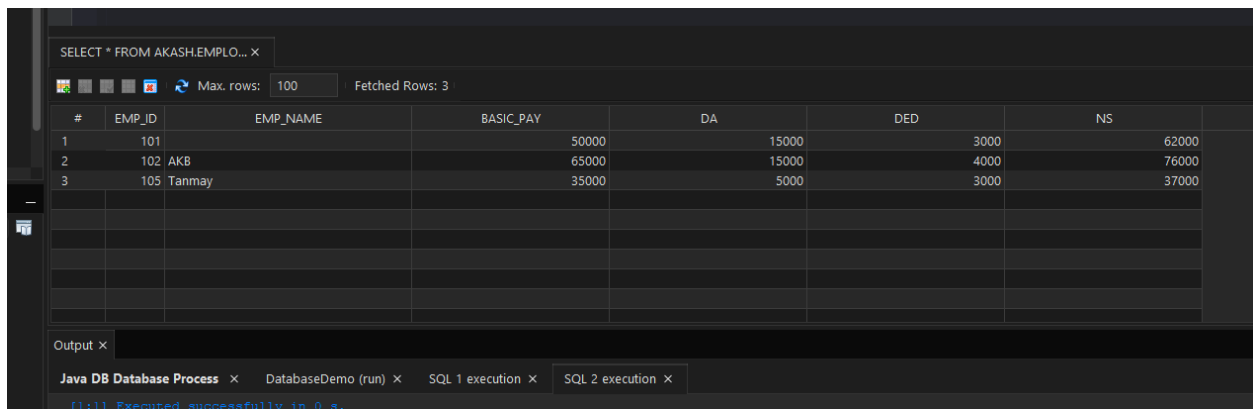
}

}

OUTPUT:

Q2:

CODE:

```
package databasedemo;

import java.sql.*;

import java.util.Scanner;

public class DatabaseDemo {
```

```java
static Connection con;

static Statement st;

static String url = "jdbc:derby://localhost:1527/demo";

static String uname = "akash";

static String pwd = "akash";

public static void main(String[] args) {

    int n, emp_id, basic_pay, da, ded, ns;

    String emp_name;

    try {

        con = DriverManager.getConnection(url, uname, pwd);

        st = con.createStatement();

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the Employee ID: ");

        emp_id = sc.nextInt();

        sc.nextLine();

        System.out.println("Enter the Employee Name: ");

        emp_name = sc.nextLine();

        System.out.println("Enter the Basic Pay: ");

        basic_pay = sc.nextInt();

        System.out.println("Enter the Dearness Allowance: ");

        da = sc.nextInt();

        System.out.println("Enter the deductions(DED): ");

        ded = sc.nextInt();
```

```java
        ns = basic_pay + da - ded;

        String insertQuery = "INSERT INTO employee VALUES(" + emp_id + ", '" + emp_name
+ "', " + basic_pay + ", " + da + ", " + ded + ", " + ns + ")";

        n = st.executeUpdate(insertQuery);

        if (n > 0)

            System.out.println("1 new record inserted");

        else

            System.out.println("Error in insertion");

        String selectQuery = "SELECT * FROM employee";

        ResultSet rs = st.executeQuery(selectQuery);

        System.out.println("\nEmployee Table:");

        System.out.println("Emp_ID | Emp_Name | Basic_Pay | DA | DED | Net_Salary");

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

        while (rs.next()) {

            System.out.print(rs.getInt("emp_id") + " | ");

            System.out.print(rs.getString("emp_name") + " | ");

            System.out.print(rs.getInt("basic_pay") + " | ");

            System.out.print(rs.getInt("da") + " | ");

            System.out.print(rs.getInt("ded") + " | ");

            System.out.println(rs.getInt("ns"));

        }

        rs.close();

    } catch (SQLException e) {
```

```
            System.out.println("Exception: " + e);

        }

    }

}
```

OUTPUT: