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Course Code: CSA0985

Course Name: JAVA PROGRAMMING

Assignment - 4

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JAVA PROGRAMMING

This java Program creates a simple Student database using MySQL and performs the following operations

1. Connects to a MySQL database named "javadb" on local host.

2. Create a table named "student" with two columns.

3. Inserts the user - inputed records to the "student" table.

4. close the database connection and resources.

PROGRAM:

```
import java. Sql. Connections;

import java. sql. DriverManager;

import. java. Sql. SQL Execution;

import. java. sql. Statement;

import. java. util. Scanner;

public class Main
{
    public static void main (String[] args)
    {
        Scanner scanner = new scanner (System.in);

        try
        {
            Class. for Name (" com.mysql.Cj. jtbc. Driver");

            String url = "jdbc: mysql;

            String user = "root";

            String Password ="";

            Connection Con = DriverManager .get Connection (url, user,
                                                            password);

            Statement stmt = Con. Create statement ();
```

```java
String CreateTablesql = "CREATE TABLE IF NOT EXISTS
                         Student (SNO int, sname
                                  varchar(20))";

for (int i=0; i<5; i++)
{
    System.out.println("Enter Student number:");
    int SNO = Scanner.nextInt();
    Scanner.nextline();
    System.out.println("Enter Student name");
    String sname = Scanner.nextline();
    String insertsql = String.format("insert into Student
                                      (SNO, sname, values
                                       (%d, %s)", sno,
                                                   Sname);
    stmt.executeUpdate(insertsql);
}
System.out.println("Records inserted Successfully...");

    stmt.close();
    con.close();
}

catch (class not found Exception/SQL Exception)
{
    e.printStackTrace();
```

```java
        }
        finally
        {
            Scanner.close();
        }
    }
}
}
```

②
```java
import java.sql.Connection;
import java.sql.*;
import java.util.Scanner;
public class Main
{
    public static void main(String[] args)
    {
        Scanner scanner = new Scanner(System.in);
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            String url = "jdbc mysql://localhost:3306/javadb";
            String user = "root".
            "    password = "";
            Statement stmt = con.createstatement();
            String Createtable sql = "Create table if not
                                    exists student (SNO int,
                                    Sname varchar(20))";
            for(int i=0; i<5; i++)
            {
```

```java
System.out.println("Enter student no");
int Sno = Scanner.nextint();
Scanner.nextline();

    System.out.println("Enter student name");

    String sname = scanner.nextline();

}
system.out.println("Records inserted successfully");

String sql = "select * from student";

Resultset rs = null;

    rs = Stmt.executeQuery(sql);

system.out.println("student Details");

while (rs.next())

{
  int sno = rs.getInt("sno");

  String sname = rs.getString("sname");

  System.out.println("sno :" + sno + "sname" +
                                       sname);

  Stmt.close();
  Con.close();

  }
catch (Class not found Exception (SQL Exception))

{
```

```
            e. print stack trace ();

        }
    finally
    {
        scanner. close ();

    }
  }
}
```