

```

import com.ram.bean.StudentBean;
import java.util.ArrayList;

/*
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 */

/**
 *
 * @author Admin
 */
public class A2 {
    public static void main(String[] args) {
        ArrayList<Integer> list=new ArrayList<Integer>();
        list.add(10);
        list.add(100);
        list.add(20);
        list.add(200);

        System.out.println(list);
        System.out.println("Print Data Using for each ");
        for(Integer x:list){
            System.out.println(""+x);
        }

        ArrayList<StudentBean> list2=new ArrayList<StudentBean>();
        list2.add(new StudentBean(101, "A", "X1", 0, 0, 0, 0, 0, 0));
        list2.add(new StudentBean(102, "B", "X1", 0, 0, 0, 0, 0, 0));
        list2.add(new StudentBean(103, "C", "X1", 0, 0, 0, 0, 0, 0));
        list2.add(new StudentBean(104, "D", "X1", 0, 0, 0, 0, 0, 0));
        list2.add(new StudentBean(105, "E", "X1", 0, 0, 0, 0, 0, 0));

        System.out.println("Print All Data from list 2");
        for(StudentBean sb:list2){
            System.out.println(""+sb.getSid()+"\t"+sb.getName());
        }

    }
}

```

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import java.sql.*;
class StudentDAO{
    static Connection conn;
    public ArrayList<StudentBean> findAll(){
        //step1:
        //step2:
        conn=ConnectionPool.connectDB();
        ArrayList<StudentBean> list=new ArrayList<StudentBean>();
        //step3: Write SQL Query select
        String sql="select * from student";
        try {
            //step4: Create an Object of Statement
            Statement stmt=conn.createStatement();

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//step5: Call executeQuery method
ResultSet rs=stmt.executeQuery(sql);
//step6: Extract data from the ResultSet and add into ArrayList
while(rs.next()){
    StudentBean x=new StudentBean();
    //step1: Fetch data from resultSet and Set Into the Bean
    x.setSid(rs.getInt("sid"));
    x.setName(rs.getString("name"));
    x.setEnroll(rs.getString("enroll"));
    x.setP(rs.getInt("p"));
    x.setC(rs.getInt("c"));
    x.setM(rs.getInt("m"));
    x.setH(rs.getInt("h"));
    x.setE(rs.getInt("e"));
    x.setTotal(rs.getInt("total"));
    x.setPer(rs.getFloat("per"));

    //step2: add bean object into list
    list.add(x);
}
//step7: Close the Connection
conn.close();
} catch (SQLException ex) {
    Logger.getLogger(StudentDAO.class.getName()).log(Level.SEVERE, null, ex);
}

return list;
}
public static void main(String[] args) {
    //4. call findAll Method
    StudentDAO sd=new StudentDAO();
    ArrayList<StudentBean> al=sd.findAll();
    for(StudentBean s:al){
        System.out.println("\t"+s.getSid()+"\t"+s.getName()+"\t"+s.getEnroll()+"\t"+s.getP()+"\t"+s.getC()+"\t"+s.getM()+"\t"+s.getH()+"\t"+s.getE()+"\t"+s.getTotal()+"\t"+s.getPer());
    }
}



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/*
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 */
package com.ram.dao;

import com.ram.bean.StudentBean;
import com.ram.utility.ConnectionPool;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.ArrayList;
import java.util.logging.Level;
import java.util.logging.Logger;

public class StudentDAO {
    static Connection conn;

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public int addStudent(StudentBean sb){
    //step1
    //step2
    conn=ConnectionPool.connectDB();
    //step3: Write SQL Query
    int total=sb.getP()+sb.getC()+sb.getM()+sb.getH()+sb.getE();
    float per=total/5.0f;
    String sql="insert into student
values('"+sb.getSid()+"','"+sb.getName()+"','"+sb.getEnroll()+"','"+sb.getP()+"','"+sb.getC()+"','"+sb.get
M()+"','"+sb.getH()+"','"+sb.getE()+"','"+total+"','"+per+"')";
    int r=0;
    try {
        //step4: Create Object of Statement
        Statement stmt=conn.createStatement();
        //step5: call executeUpdate()
        r=stmt.executeUpdate(sql);
        //step6: Close the Connection
        conn.close();
    } catch (SQLException ex) {
        Logger.getLogger(StudentDAO.class.getName()).log(Level.SEVERE, null, ex);
    }

    return r;
}

public int updateStudent(StudentBean sb){
    //step1
    //step2
    conn=ConnectionPool.connectDB();
    //step3: Write SQL Query
    int total=sb.getP()+sb.getC()+sb.getM()+sb.getH()+sb.getE();
    float per=total/5.0f;
    String sql="update student set
name='"+sb.getName()+"',enroll='"+sb.getEnroll()+"',p='"+sb.getP()+"',c='"+sb.getC()+"',
m='"+sb.getM()+"',h='"+sb.getH()+"',e='"+sb.getE()+"',total='"+total+"',per='"+per+"' where
sid='"+sb.getSid()+"'";
    int r=0;
    try {
        //step4: Create Object of Statement
        Statement stmt=conn.createStatement();
        //step5: call executeUpdate()
        r=stmt.executeUpdate(sql);
        //step6: Close the Connection
        conn.close();
    } catch (SQLException ex) {
        Logger.getLogger(StudentDAO.class.getName()).log(Level.SEVERE, null, ex);
    }

    return r;
}

public int deleteStudent(int sid){
    //step1:
    //step2:
    conn=ConnectionPool.connectDB();
    int r=0;
    //step3: Write SQL Query
    String sql="delete from student where sid='"+sid+"'";

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try {
    //step4: Create Object of Statement
    Statement stmt=conn.createStatement();
    //step5: call executeUpdate()
    r=stmt.executeUpdate(sql);
    //step6: Close the Connection
    conn.close();
} catch (SQLException ex) {
    Logger.getLogger(StudentDAO.class.getName()).log(Level.SEVERE, null, ex);
}

return r;
}

public ArrayList<StudentBean> findAll(){
    //step1:
    //step2:
    conn=ConnectionPool.connectDB();
    ArrayList<StudentBean> list=new ArrayList<StudentBean>();
    //step3: Write SQL Query select
    String sql="select * from student";
    try {
        //step4: Create an Object of Statement
        Statement stmt=conn.createStatement();
        //step5: Call executeQuery method
        ResultSet rs=stmt.executeQuery(sql);
        //step6: Extract data from the ResultSet and add into ArrayList
        while(rs.next()){
            StudentBean x=new StudentBean();
            //step1: Fetch data from resultSet and Set Into the Bean
            x.setSid(rs.getInt("sid"));
            x.setName(rs.getString("name"));
            x.setEnroll(rs.getString("enroll"));
            x.setP(rs.getInt("p"));
            x.setC(rs.getInt("c"));
            x.setM(rs.getInt("m"));
            x.setH(rs.getInt("h"));
            x.setE(rs.getInt("e"));
            x.setTotal(rs.getInt("total"));
            x.setPer(rs.getFloat("per"));

            //step2: add bean object into list
            list.add(x);
        }
        //step7: Close the Connection
        conn.close();
    } catch (SQLException ex) {
        Logger.getLogger(StudentDAO.class.getName()).log(Level.SEVERE, null, ex);
    }

    return list;
}

public static void main(String[] args) {
    //4. call findAll Method
    StudentDAO sd=new StudentDAO();
    ArrayList<StudentBean> al=sd.findAll();
    for(StudentBean s:al){

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System.out.println("\t"+s.getSid()+"\t"+s.getName()+"\t"+s.getEnroll()+"\t"+s.getP()+"\t"+s.getC()+"\t
"+s.getM()+"\t"+s.getH()+"\t"+s.getE()+"\t"+s.getTotal()+"\t"+s.getPer());
}

// StudentBean sb=new StudentBean();
// sb.setC(67);
// sb.setE(78);
// sb.setEnroll("011Cs1");
// sb.setH(67);
// sb.setM(66);
// sb.setP(55);
// sb.setName("XXXXX");
// sb.setSid(105);
// StudentDAO sd=new StudentDAO();
// int result=sd.addStudent(sb);
// if(result>0){
//     System.out.println("Student Added Success");
// }else{
//     System.out.println("Student Not Added");
// }

////3. Call deletestudent()
//StudentDAO sd=new StudentDAO();
//int x=sd.deleteStudent(101);
//if(x>0){
//    System.out.println("Data Deletion success");
//}else{
//    System.out.println("Data Deletion Fail");
//}

}
}

```