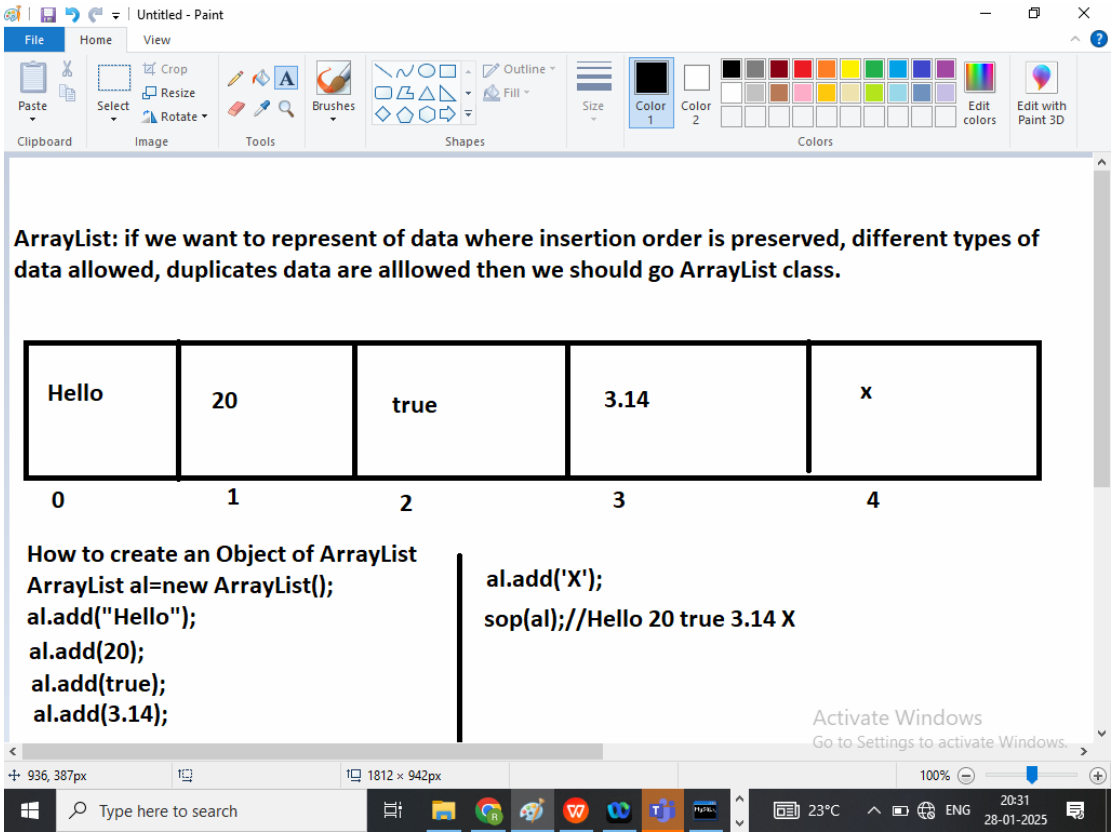


```
import java.util.ArrayList;

/*
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 * and open the template in the editor.
 */

/**
 *
 * @author Admin
 */
public class ArrayListExample {
    public static void main(String[] args) {
        //Array : fixed in size after declaring array we cannot change it
        //It can hold only same type values
        //ArrayList:
        //Flexible and growable in nature
        //It can hold same type or different type of data
        //ArrayList Class comes from java.util
        //Constructor or ArrayList Class
        //1. ArrayList();
        //2. ArrayList(Collection);
        //Methods of ArrayList Class
        //1. add(Object)
        ArrayList al=new ArrayList();
        al.add("Hello");
        al.add(20);
        al.add(true);
        al.add(3.14);
```

```
        al.add('X');
        System.out.println(al);
        System.out.println("Print Data Using For each Loop : ");
        for(Object a:al){
           System.out.print("\t"+a);
        }



    }
}
```

```
/*
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 * and open the template in the editor.
 */
package com.ram.dao;

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


public class StudentDAO {
  static Connection conn;
    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+"'";
      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 static void main(String[] args) {
//        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");
}
   }
}
```
