

```

package array_parallel;
import javax.swing.JOptionPane;
public class array_parallel
{
    public static void main(String[] args)
    {
        String value,output;
        String[]name=new String[4] ;
        int[] year=new int[4] ;
        double[] gpa=new double[4] ;
        String[] major=new String[4] ;
        int i;
        //loop to read in 4 sets of info
        for (i=0; i<=3; ++i)
        {
            output="Data Set #"+(i+1)+"\n"+"Enter the name";
            name[i]=JOptionPane.showInputDialog(null,
                output,"Input Data",JOptionPane.QUESTION_MESSAGE);
            value =JOptionPane.showInputDialog(null,
                "Enter the year","Input Data",JOptionPane.QUESTION_MESSAGE);
            year[i]=Integer.parseInt(value);
            value =JOptionPane.showInputDialog(null,
                "Enter the GPA","Input Data",JOptionPane.QUESTION_MESSAGE);
            year[i]=Integer.parseInt(value);
            gpa[i]=Double.parseDouble(value);
            major[i] =JOptionPane.showInputDialog(null,
                "Enter the Major","Input Data",JOptionPane.QUESTION_MESSAGE);
        }//for loop

        //loop to print all data stored
        output="";
        for (i=0; i<=3; ++i)
        {
            output=output+"Name = " +name[i]+" Year = "+year[i]+" GPA = "
                +gpa[i]+" Major = " +major[i]+"\n";
        }//for loop
        JOptionPane.showMessageDialog(null,output,
            "Results:",JOptionPane.INFORMATION_MESSAGE);
        System.exit(0);
    }
}

```

```

package array_parallel_methods;
import javax.swing.JOptionPane;
public class array_parallel_methods
{
    public static void main(String[] args)
    {
        String[] name=new String[4];
        int[] year=new int[4];
        double[] gpa=new double[4];
        String[] major=new String[4];

        read_data(name,year,gpa,major);
        print_data(name,year,gpa,major);
        System.exit(0);
    }
    public static void read_data(String name[], int year[],double gpa[],String major[])
    {
        int i;
        String output,value;
        for (i=0; i<=3; ++i)
        {
            output="Data Set #"+(i+1)+"\n"+"Enter the name";
            name[i]=JOptionPane.showInputDialog(null,
                output,"Input Data",JOptionPane.QUESTION_MESSAGE);
            value =JOptionPane.showInputDialog(null,
                "Enter the year","Input Data",JOptionPane.QUESTION_MESSAGE);
            year[i]=Integer.parseInt(value);
            value =JOptionPane.showInputDialog(null,
                "Enter the GPA","Input Data",JOptionPane.QUESTION_MESSAGE);
            year[i]=Integer.parseInt(value);
            gpa[i]=Double.parseDouble(value);
            major[i] =JOptionPane.showInputDialog(null,
                "Enter the Major","Input Data",JOptionPane.QUESTION_MESSAGE);
        }
    }
    public static void print_data(String name[], int year[],double gpa[],String major[])
    {
        String output="";
        int i;
        for (i=0; i<=3; ++i)
        {
            output=output+"Name = " +name[i]+" Year = "+year[i]+" GPA = " +gpa[i]+" Major = "
            +major[i)+"\n";
        }
        JOptionPane.showMessageDialog(null,output, "Results:",JOptionPane.INFORMATION_MESSAGE);
    }
}

```