1. Relevant Screenshots:

Approach:

1. take n as input
2. take n pairs of integers
3. if n=1 print invalid input
4. initialize area variable to 0
5. iterate through inputs for i=0 to n-1
    1. let current coordinates be x,y and next be x1,y1
    2. if y1>y then
        1. area+=(y1-y)X(x1-x)X1/2+yX(x1-x)
    3. else
        1. area+=(y-y1)X(x1-x)X1/2+y1X(x1-x)
6. print area

Relevant Screenshots:

1. Bad input:

```
Enter number of points: -2

Bad number of points!
Number of Points must be greater than 0...
Program Terminated
```

2. Proper input:

```
Enter number of points: 3
Enter Data for point no. 1
X coordinate : 1
Y coordinate : 1
Area so far : 0
Enter Data for point no. 2
X coordinate : 2
Y coordinate : 2
Area so far : 1.5
Enter Data for point no. 3
X coordinate : 3
Y coordinate : 3
Area so far : 4
Final calculated Area is : 4
Program Terminated
```