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 1 Module 2 Lab 2A
 2 ===============
 3
 4 Name: Clayton Black
 5 Date: 09-12-2019
 6 Assignment Name: Lab Assignment 2A
 7 Assignment Brief: Classes and Objects
 8 Sources:
 9
10 * https://ccse.kennesaw.edu/fye/pseudocode/pseudocodeguide.
   php
11
12 ```
13 CLASS Vendor
14 BEGIN
15     CREATE id
16     CREATE name
17     CREATE quarterlyPurchaseOrderTotals[4]
18
19     CONSTRUCTOR Vendor(parameter: id, name)
20         setID(id)
21         setName(name)
22     END CONSTRUCTOR
23
24     METHOD getID()
25     BEGIN
26         RETURN this.id
27     END METHOD
28
29     METHOD getName()
30     BEGIN
31         return this.name
32     END METHOD
33
34     METHOD getPurchaseOrderTotal(parameter: quarter)
35     BEGIN
36         return this.quarterlyPurchaseOrderTotals[quarter]
37     END METHOD
38
39     METHOD setID(parameter: id)
40     BEGIN
41         this.id ← id
42     END METHOD
43
44     METHOD setName(parameter: name)
45     BEGIN
46         this.name ← name
47     END METHOD
```

```
48
49     METHOD setPurchaseOrderTotal(parameter: quarter, amount
   )
50     BEGIN
51         index ← quarter - 1
52         this.quarterlyPurchaseOrderTotals[index] ← amount
53     END METHOD
54
55     METHOD sumQuarterlyPurchaseOrderTotals()
56     BEGIN
57         total ← 0
58         FOREACH quarter in this.
   quarterlyPurchaseOrderTotals
59             total = total + quarter
60         ENDFOREACH
61
62         RETURN total
63     END METHOD
64
65     METHOD toString
66     BEGIN
67         s = "Vendor Name: " + this.name + NEWLINE +
68             "Vendor ID: " + this.id + NEWLINE +
69             "First quarter purchase order total: " + this.
   quarterlyPurchaseOrderTotals[0] + NEWLIEN +
70             "Second quarter purchase order total: " + this.
   quarterlyPurchaseOrderTotals[1] + NEWLIEN +
71             "Third quarter purchase order total: " + this.
   quarterlyPurchaseOrderTotals[2] + NEWLIEN +
72             "Fourth quarter purchase order total: " + this.
   quarterlyPurchaseOrderTotals[3] + NEWLIEN
73
74         return s
75     END METHOD
76 END CLASS
77 ```

## Client Class

```
Main
BEGIN
    CREATE vendors[2] as Vendor

    FOR i ← 0; i < vendors.legth; i++
        PRINT "Processing Vendor " + (i+1)
        vendors[i] ← Vendor(i, "KSU Vendor " + i)
```

```
90          PRINT vendors[i]
91
92          vendor[i].setName("KSU Vendor " + (i+10))
93          FOR j=1; j<=4; j++)
94              vendors[i].setQuarterlyPurchaseOrderTotal(j
  , ((int) (Math.random()*10000))/100.0)
95          ENDFOR
96
97          PRINT "Vendor Name: " + vendors[i].getName()
98          PRINT "Vendor ID: " + vendors[i].getID()
99          PRINT "First quarter PO Totals: " + vendors[i].
  getQuarterlyPurchaseOrderTotal(1)
100         PRINT "Yearly PO total: " + vendors[i].
  sumQuarterlyPurchaseOrderTotals()
101
102     ENDFOR
103
104
105     FOREACH vendors as vendor
106         PRINT vendor
107     ENDFOREACH
108
109
110 END
111 ```
```