

Philip Pesic

Week 12

April 9 2023

Week 12 Prog 1

Write a program that uses 17 variables and an array of 17 integer variables.

Part 1

In this part, declare 17 individual integer variables, and initialize them each to 0.

Write 17 different output and input statements so a user can be prompted to input a number into each variable.

Write 17 output statements that print out the content of each variable.

Part 2

After you get the above working, add to the program...

Declare a single integer array of 17 variables, and initialize them all to 42 (hint: use for loop).

Next, Use a loop to have the user prompted to enter a value for each variable in the array.

Lastly, Use a loop, with 1 println() statement, to print the 17 values of the integer array.

```
package Prog1;
import java.util.Scanner;

class prog1 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q;
        a = input.nextInt();
        b = input.nextInt();
        c = input.nextInt();
        d = input.nextInt();
        e = input.nextInt();
        f = input.nextInt();
        g = input.nextInt();
        h = input.nextInt();
        i = input.nextInt();
        j = input.nextInt();
```

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```
k = input.nextInt();
l = input.nextInt();
m = input.nextInt();
n = input.nextInt();
o = input.nextInt();
p = input.nextInt();
q = input.nextInt();

System.out.println(a);
System.out.println(b);
System.out.println(c);
System.out.println(d);
System.out.println(e);
System.out.println(f);
System.out.println(g);
System.out.println(h);
System.out.println(i);
System.out.println(j);
System.out.println(k);
System.out.println(l);
System.out.println(m);
System.out.println(n);
System.out.println(o);
System.out.println(p);
System.out.println(q);
System.out.println(" ");

int arr[] = new int[17];

for (int x = 0; x < 17; x++) {
    arr[x] = input.nextInt();
}

for (int x = 0; x < 17; x++) {
    System.out.println(arr[x]);
}

input.close();
System.out.println("Philip Pesic 4/9/23");
```

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```
}  
}
```

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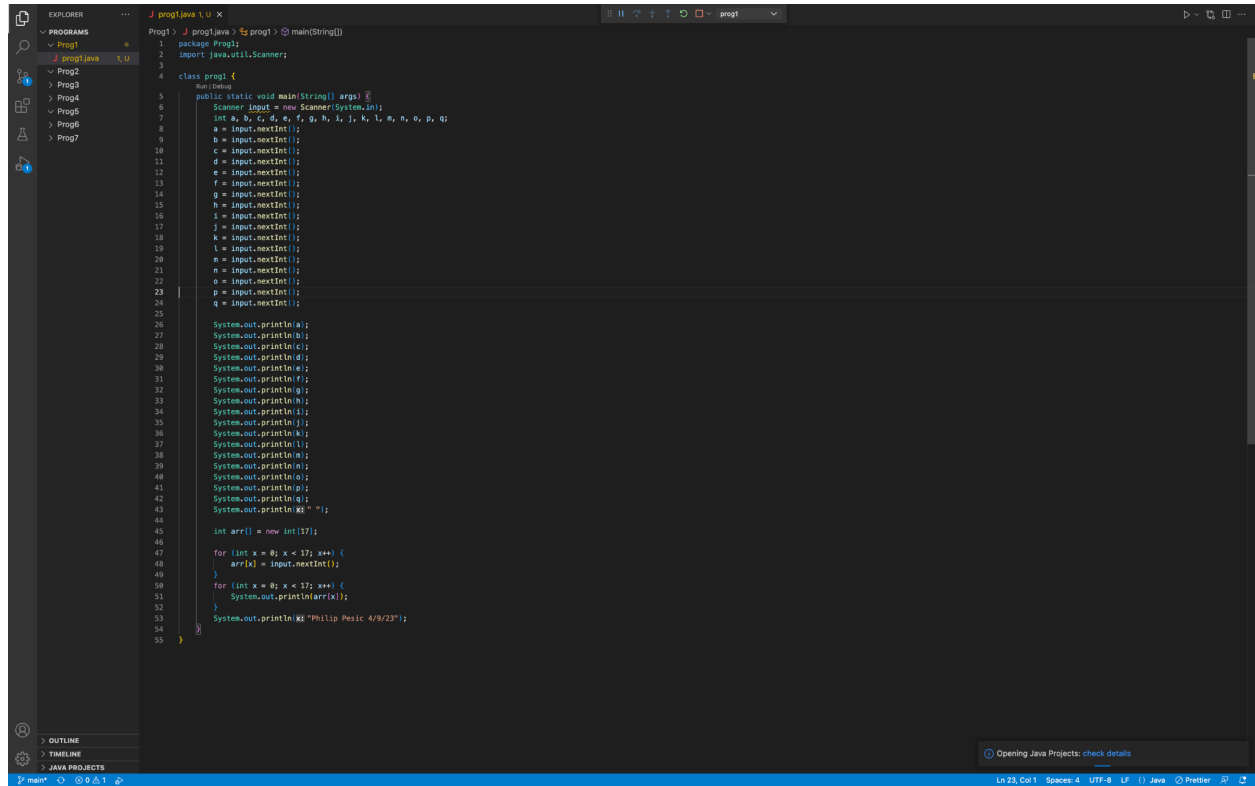
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```
1 package Prog1;
2 import java.util.Scanner;
3
4 class Prog1 {
5     nonStatic
6     public static void main(String[] args) {
7         Scanner input = new Scanner(System.in);
8         int a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q;
9         a = input.nextInt();
10        b = input.nextInt();
11        c = input.nextInt();
12        d = input.nextInt();
13        e = input.nextInt();
14        f = input.nextInt();
15        g = input.nextInt();
16        h = input.nextInt();
17        i = input.nextInt();
18        j = input.nextInt();
19        k = input.nextInt();
20        l = input.nextInt();
21        m = input.nextInt();
22        n = input.nextInt();
23        o = input.nextInt();
24        p = input.nextInt();
25        q = input.nextInt();
26
27        System.out.println(a);
28        System.out.println(b);
29        System.out.println(c);
30        System.out.println(d);
31        System.out.println(e);
32        System.out.println(f);
33        System.out.println(g);
34        System.out.println(h);
35        System.out.println(i);
36        System.out.println(j);
37        System.out.println(k);
38        System.out.println(l);
39        System.out.println(m);
40        System.out.println(n);
41        System.out.println(o);
42        System.out.println(p);
43        System.out.println(q);
44        System.out.println("x");
45
46        int arr[] = new int[17];
47        for (int x = 0; x < 17; x++) {
48            arr[x] = input.nextInt();
49        }
50        for (int x = 0; x < 17; x++) {
51            System.out.println(arr[x]);
52        }
53        System.out.println("Philip Pesic 4/9/23");
54    }
55 }
```

I learned how to use arrays to make code more concise