

# OBJECT-ORIENTED SYSTEMS DESIGN (Lab2)

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Write a program *PrintfDemo* that prints the output in the next page.

Create a variable *String aString* whose value is "abc", a variable *char oneCharacter* whose value is "Z", and a variable *double d* whose value is 12345.123456789. You should use Formatting.



String output: START1234567890 STARTabcEND START abcEND STARTabcEND

Character output: START1234567890 STARTZEND START ZEND

Floating-point output: START1234567890 START12345.123457END START12345.1235END START12345.12END START 12345.1235END START1.234512e+04END START 1.23451e+04END



Write a program ScannerDemo that prints the output in the next page.

Create two variables *numberOfPods* and *peasPerPod* to store input values, and a variable *totalNumberOfPeas* to store the value calculated by the following equation.

totalNumberOfPeas = numberOfPods\* peasPerPod;



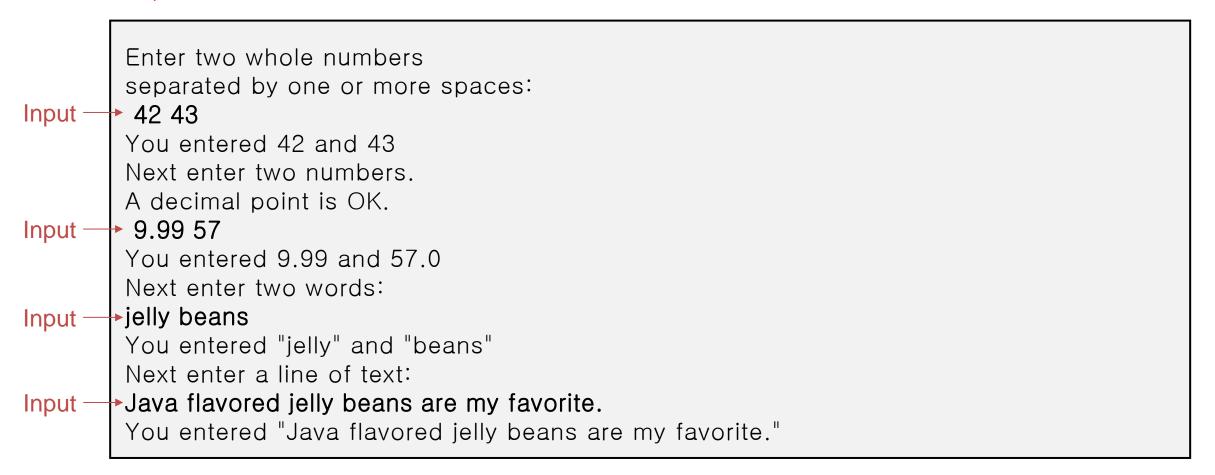
Enter the number of pods followed by the number of peas in a pod:

> 22 pods and 10 peas per pod. The total number of peas = 220



Write a program *ScannerDemo2* that prints the output in the next page. Create variables *n1*, *n2*, *d1*, *d2*, *word1*, *word2*, *junk*, and *line* to store input appropriately.







Write a program SelfService that prints the output in the next page.

Create two variables *count* and *price* to store input values, and a variable *total* to store the value calculated by the following equation.

total = count \* price



Enter number of items purchased followed by the cost of one item. Do not use a dollar sign.

Input —

**→** 10 19.99

10 items at \$19.99 each.

Total amount due \$199.90.

Please take your merchandise.

Place \$199.90 in an envelope

and slide it under the office door.

Thank you for using the self-service line.



Write a program *DelimiterDemo* that prints the output below.

Create variables *word1*, *word2* and *junk* to store input appropriately. You should use method *useDelimiter()*.

#### <output>

```
Enter a line of text:
    one two##three##
For keyboard1 the two words read are:
    one
    two##three##
Reenter the same line of text:
    one two##three##
Input
For keyboard2 the two words read are:
    one two
    three
```

## **2-6**

Make a file *player.txt* and write a program *TextFileDemo* that prints the output below. Create variables *highscore* and *name* to store values from the file. You should use try/catch block and methods *hasNextLine()* and *close()*.

#### <player.txt>

100510 Gordon Freeman

#### <output>

Text left to read? true

Name: Gordon Freeman

High score: 100510

Text left to read? False