



한양대학교



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.



2-1

<output>

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.

$$\textit{totalNumberOfPeas} = \textit{numberOfPods} * \textit{peasPerPod};$$



2-2

<output>

Input →

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

22 10

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.



2-3

<output>

Enter two whole numbers
separated by one or more spaces:

Input → **42 43**

You entered 42 and 43
Next enter two numbers.
A decimal point is OK.

Input → **9.99 57**

You entered 9.99 and 57.0
Next enter two words:

Input → **jelly beans**

You entered "jelly" and "beans"
Next enter a line of text:

Input → **Java flavored jelly beans are my favorite.**

You entered "Java flavored jelly beans are my favorite."

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.

$$total = count * price$$



2-4

<output>

Input →

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

For keyboard2 the two words read are:

one two

three

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
```