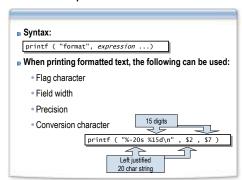
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Chapter 5		
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Input and Output		
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Overview		
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Output		
■ Input ■ Passing Parameters Into awk Script		
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Lesson: Output		
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□ Formatted output     □ Output Into Files	_	
Output Into Files     Output Into pipes		
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## **Formatted Output**



# **Output Into Files**

The results of print and printf commands can be redirected

-> - write to file
->> - append to file

if (FNR < 2)
print "processing file", FILENAME >> debug.out
...

## **Output Into Pipe**

Instead of redirection, the output can also piped

cat /etc/passwd | awk 'BEGIN {FS = ":"
print " User UID Real Name Home Dir Login Shell"} \$3 > 100 {
printf ("%-95%-6d%-15s%-15s%-15s\n",\$1,\$3,\$5,\$6,\$7)
| "sort -rn -k2"}'

There can only be one pipe open at a time; if another pipe is desired, you must close the old one first

close ("sort -rn -k2")

You can use variable contents instead of literal strings

Lesson:	Input
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- Input Separators
- **Multiline Records**
- **The** getline Function

### **Input Separators**

- $_{\rm I\!E}$  The variable FS contains input field separator. By default, the value is " ".
- $_{\hbox{\scriptsize I\hspace{-.075em}I\hbox{\scriptsize I}}}$  The value can be any extended regular expression.
- The value can be changed from inside script or from command line:

# **Multiline Records**

- $\blacksquare$  The variable RS contains input record separator. By default, the value is ,,\n".
- The value can be any single character.

```
$ echo $PATH | awk 'BEGIN {RS=":"} ; {print}'
```

If the value is null, then awk will separate records based on blank lines.

BEGIN {RS= ""; FS= "\n"}

## The getline Function

# syntax: getline [variable] \*Next record form input is read. If variable name is specified, record is read into variable. sgetline can read also from redirected input or from pipe s awk ' BEGIN {print "Current Mount Table" while ( "mount -p" | getline ) { entries++ print \$1, "is mounted onto:",\$2,"as type",\$3 } print entries, "entries in the mount table" }.

### Lesson: Passing Parameters Into awk Script

Any variable can be assigned value with -v command line option:

\$ awk -v OFS=' . ' -v RS=\$myRS -f scriptfile filex Environment variables can be accessed through array

ENVIRON

\$ awk 'BEGIN { print "Hello,", ENVIRON["LOGNAME"]}'

■ There are also ARGV array and ARGC variable available during BEGIN action:

```
$ awk 'BEGIN {print ARGC," Args: ,,
    print ARGV[0], ARGV[1], ARGV[2]}' abc def
3 Args:
  awk abc def
```

# **Review Exercises**



# **Topics for Review**

	1 Read the review topics 2 Think about what you learned in this Session in the context of your own work environment 3 Discuss your answers as a class	
2		