CSC209 Week 3 Notes

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Shell Programming 4 of 6

- I/O redirection
- File Descriptors
 - **0:** Standard Input
 - 1: Standard Output
 - * Channels all output

```
cat sample.txt
hello!
hi!
ti's a pleasure to meet you
>>> cat sample.txt> output.log
>>> cat sample.txt1> output.log # identical
>>> cat output.log
hello!
hi!
ti's a pleasure to meet you
```

- 2: Standard Error
 - * Channels all error output

```
>>> cat 2> error.log
```

- \$#
 - Returns number of command line arguements

```
>>> cat arg_number_check_example.sh
if [ $# -ne 2 ]
then
echo usage: arg_number_check_example.sh x y >& 2
exit 1
fi
```

```
8    expr $1 + $2
9    >>> arg_number_check_example.sh 2
10    usage: arg_number_check_example.sh x y
```

- \$@
- \$\{x\}