CSC209 Week 2 Notes

Hyungmo Gu

May 10, 2020

Shell Programming 1 of 6

- *.<*EXTENSION*>
 - returns all items under the extension

- read
 - store values in variable interactively"

```
>>> read x y
>>> hello world 2
>>> echo $x
hello
>>> echo $y
world 2
```

- _ "
- store commands in variable

Shell Programming 2 of 6

- test
 - checks file types and compares values
 - used in if and while statement to check condition

- test <EXPRESSION > is equivalent to [EXPRESSION]

```
1     >>> if [ 0 -eq 0 ]
2     if> then
3     then> echo 'hello'
4     then> fi
5     hello
```

- has the following numeric comparison operators
 - 1. -lt: less than
 - 2. **-gt:** greater than
 - 3. **-eq:** equal to
 - 4. -ne: not equal
 - 5. -le: less than
 - 6. **-ge:** greater than

- has the following file testing operators
 - 1. **-f file:** file exists and is a plain file
 - 2. -d file: file exists and is a directory
 - 3. -s file: file exists and is a plain file of non-zero size

```
>>> echo 'hello world' > sample.txt
>>> test -s sample.txt
>>> echo $?
4 0
```

- if
- &&: chains multiple if conditions

Shell Programming 3 of 6

• Switch

```
>>> cat switch_example.sh
      array=("hello" "goddbye" 2)
      for i in "${array[@]}"
3
      do
          case $i in
5
              hello)
                   echo 'hello there'
                   ;;
               goodbye)
9
                   echo 'see you later'
11
               *)
12
                   echo "it's a pleasure to meet you"
13
14
                   ;;
          esac
15
16
      done
      >>> sh switch_example.sh
17
      hello there
18
      see you later
19
      it's a pleasure to meet you
20
21
```