CSC209 Week 2 Notes

Hyungmo Gu

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Shell Programming 1 of 6

- *.<EXTENSION>

  - returns all items under the extension

  ```
  1    # computer-science-notes folder
  2    >>> echo *.pdf
  3    common_mistakes_in_proofs.pdf sample.pdf
  4
  ```

- read

  - store values in variable interactively "

  ```
  1    >>> read x y
  2    >>> hello world 2
  3    >>> echo $x
  4    hello
  5    >>> echo $y
  6    world 2
  7
  ```

- "

  - store commands in variable

  ```
  1    >>> i = `expr 4 + 1`
  2    >>> echo $i
  3    5
  4
  ```

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    >>> test 2 -lt 3
2    >>> echo $?
3    0
4
```

  - 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