Exit status, command test, flow control.

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Contents

Exit status

- What is the exit status?
- What is the meaning of exit status of the following commands?

  - ```
    PASS =/ etc / passwd
    grep ^ root : " $PASS " ; echo $?
    ```

  - ```
    grep ^ roooot : " $PASS " ; echo $?
    ```

  - ```
    grep ^ root : / etc / foo ; echo $?
    ```

  - ```
    ~/. bash_history ; echo $?
    ```

Exit status

- What is the meaning of exit status of the following commands?

    - `winzip ; echo $?`

    - `ls -lR /      ^C ; echo $?`

Command `test` and `if`

- Create a shell script list1.bash that requires one argument.
    - If the argument is missing or if there are more arguments, then the script prints the following error and exits with exit status 1.

    ```
    Usage: ./list1.bash directory_name
    ```

    - If the argument is a name of a directory and the directory is readable, then the scripts lists its contents by command `ls -la`. Otherwise the script prints the following error and exits with exit status 2.

    ```
    ./list1.bash: "foo" is not readable directory
    ```

- Change the access permissions of the script by the following command

    ```
    chmod 755 list1.bash
    ```

- Run the script by the following command

    ```
    ./list1.bash
    ```

Command `test` and `if`

Loop for

- Modify previous shell script such that for every regular readable file in the directory it will print file type (output from command file).
- Example of script output

```
$> ../list2.bash /usr/bin/ | head

/usr/bin/[: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically linked
/usr/bin/411toppm: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically
/usr/bin/7z: POSIX shell script, ASCII text executable
/usr/bin/7za: POSIX shell script, ASCII text executable
/usr/bin/a2p: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically
/usr/bin/aa-easyprof: Python script, ASCII text executable
/usr/bin/abs2rel: Lua script, ASCII text executable
/usr/bin/aclocal: awk script, ASCII text
/usr/bin/aclocal-1.13: awk script, ASCII text
/usr/bin/aconnect: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically
```

Loop for