Parsing Command Line Options (S6)

Case Statements

- Execute commands based on pattern matching.
    - case WORD in [PATTERN [| PATTERN]...) COMMANDS ;;]... esac

Functions

- function:
    - function name { COMMANDS ; } or name () { COMMANDS ; }
    - Create a shell function named NAME. When invoked as a simple command, NAME runs COMMANDs in the calling shell's context. When NAME is invoked, the arguments are passed to the function as $1...$n, and the function's name is in $FUNCNAME.
    - Functions have to be defined before usage
- local <variable>: makes a variable local
- arguments given to functions can be accessed with positional parameters
- readonly <variable> → mark as readonly
- logger → to log in system log (/var/log/syslog)

Parsing Command Line Options with getopts

- Getopts is used by shell procedures to parse positional parameters as options.
    - while getopts vl:s OPTION
    - getopts optstring name [arg]
    - ${OPTARG} → to get the command argument value
- Arithmetic expansion:
    - with ((…)) :
        - NUM=$((2+3))
    - with let command
        - let NUM='2+3'
        - let NUM++
    - expr
        - NUM=$(expr 2+3)

Finding Files

- locate → using database
- find → up to date

Userdel command

- deletes user account and related files

Archives with tar

- tar command

Disabling Accounts

- chage → to change expiration date
- passwd –l → lock password(account), ssh-key login still possible