

OS – PS-Sheet 1

Script 1

```
1  #!/bin/bash
2  # Script 1
3  #
4  for FN in "$@"          # go through every argument where FN is the
5                          # argument name and "$@" the number of arguments.
6  do                     # change file modes or Access Control Lists to
7                          # -rwxr-x--- (https://goo.gl/gtTC9Z) of FN (octal)
8  chmod 0750 "$FN"        # comment to check backup
9                          # this sets up a shell script for execution
10 done                   # end program
```

Script 2

```
1  #!/bin/bash
2  # Script 2
3  if (( $# < 3 ))          # if number of arguments is smaller three..
4  then
5  printf "%b" "Error. Not enough arguments.\n" >&2
6  printf "%b" "usage: myscript file1 op file2\n" >&2
7  exit 1
8  elif (( $# > 3 ))        # ..or greater than three
9  then
10 printf "%b" "Error. Too many arguments.\n" >&2
11 printf "%b" "usage: myscript file1 op file2\n" >&2
12 exit 2                  # print error and usage tips
13 else                    # if number of arguments is three, print
14 printf "%b" "Argument count correct. Proceeding...\n"
15 # end of if statement indicated by fi
16 fi
17
18 # Exit status (https://goo.gl/xAkiY4):
19 # 0          if OK,
20 # 1          if minor problems (e.g., cannot access subdirectory),
21 # 2          if serious trouble (e.g., cannot access command-line argumen
t).
```

Script 3

```
1  #!/bin/bash
2  # Script 3
3  INFILE=$1      # The input file (1st argument)
4  OUTFILE=$2     # The output file (2nd argument)
5  if [ -e "$INFILE" ]      # if file from argument 1 exists,
6  then
7  if [ -w "$OUTFILE" ]     # and the outfile exists and is writeable
8  then
9  cat "$INFILE" >> "$OUTFILE"      # append text from infile at
10                                     # the end of outfile (don't use same
11                                     # using cat (concatenate and print fil
12                                     es)
13 else
14 echo "can not write to $OUTFILE"  # if outfile is not writeable, endif
15 fi
16 else
17 echo "can not read from $INFILE"  # if infile does not exist, endif
18 fi
```