Main Args Lab – Answer Document

Process Switches - Take One

1. What is printed when invoked as $ ./mainargs -s
2. What is printed when invoked as $ ./mainargs -sun
3. What is printed when invoked as $ ./mainargs -u -u
4. What is printed when invoked as $ ./mainargs -u -ussr
5. What is printed when invoked as $ ./mainargs -a
6. What is printed when invoked as $ ./mainargs -a -u
7. What is printed when invoked as $ ./mainargs -u -a
8. Run the program to verify your answers to the questions above. Copy/paste your run log here.
9. Experiment with other combinations of switches.

Process Switches - Take Two

1. What is printed when invoked as $ ./maingetopts -h
2. What is printed when invoked as $ ./maingetopts -had
3. What is printed when invoked as $ ./maingetopts -hadf
4. What is printed when invoked as $ ./maingetopts -hadf gusty
5. Run the program to verify your answers to the questions above. Copy/paste your run log here.
6. Experiment with other combinations of switches. Show your experiments here

## Experiments and Questions

1. Run you program without arguments.

$ ./my\_kill

Error - command format is $ my\_kill pid  
Copy/paste your running here.

1. Run your program with one integer argument.  
   $ ./my\_kill 1234

my\_kill pid: 4823

Value of errno: 3

Error printed by perror: No such process

Error killing process: No such process  
Copy/paste your running here.

1. Run your program with the -h option and a pid.   
   $ ./my\_kill -h 1234  
   Hello World

my\_kill pid: 4823

Value of errno: 3

Error printed by perror: No such process

Error killing process: No such process  
Copy/paste your running here.

1. Run your program with the -h option, -f option, and a pid.   
   $ ./my\_kill -h -f tiny.txt 1234  
   Hello World

Printing file tiny.txt

a

small

file

my\_kill pid: 4823

Value of errno: 3

Error printed by perror: No such process

Error killing process: No such process  
Copy/paste your running here.

1. Run your program with some combinations of options. Copy/paste your running here.
2. Run your program with a string argument. Copy/paste your running here.
3. You will use my\_kill in our Signals Lab. No answer for this question.

Questions

1. Explain argc and argv in your own words.
2. True/False - The parameters argc and argv must be those names. Justify you answer.
3. What are switches/flags?
4. What are two ways to process switches/flags?
5. What is errno? When do you examine errno? What purpose does errno serve?