Shell Scripts
Hello!

# Script to read your name from keyboard
#
echo "Your first name please:"
read fname
echo "Hello $fname, Lets be friends!"
echo

- **echo [options] [string, variables...]**
  - Displays text or variables value on screen.

- **Options**
  - **-n** Do not output the trailing new line.
  - **-e** Enable interpretation of the following backslash escaped characters in the strings:
    - \a alert (bell)
    - \b backspace
    - \n new line
    - \r carriage return
    - \t horizontal tab
    - \\ backslash
exit status

- 0 : successful
- not 0 : not successful
- echo $?
  - print error code
- ie.
  - ls fname3  (fname3 does not exist)
  - ls $?
Quotes

- ' single quote
  - remains without change
- " double quote
  - evaluate variables
- ` back-quote
  - execute command
quote examples

- `echo "Today is date"`
  - Today is date

- `echo "Today is `date`"`
  - will execute date command and print it.

- `echo `expr 6 + 3``
  - 9

- `echo 'expr 6 + 3'`
  - expr 6+3

- `echo "expr 6 + 3"
  - expr 6+3`
arithmetic

- plus
  - expr 1 + 3

- minus
  - expr 2 - 1

- divide
  - expr 10 / 2

- remainder
  - expr 20 % 3

- multiplication
  - expr 10 \* 3

- NOTE: * is wild card
command line arguments

- $0 : name of command
- $1 $2 … : 1\textsuperscript{st} argument, 2\textsuperscript{nd} argument, …
- $# : number of arguments
- $* : all arguments
- $@ : all arguments
Redirection

- `>`
  - send to a file
  - `ls -l > dir-list`
  - sends output of `ls -l` to `dir-list`
- `>>`
  - appends to end of file
- `<`
  - sends file to command
  - `cat < aFile`
- `>`
  - creates a new file
- `>>`
  - appends to end of file
redirection example

```bash
$cat > out1
mary
lamb
little
baby
CTRL-D
```
redirection example 2

- sort < aFile > sortedFile
pipe

- who | sort
- who | sort > user_list
- who | wc -l
- ls -l | wc -l
#!/bin/sh
#
# Script to see whether argument is positive or negative
#
if [ $# -eq 0 ]
then
  echo "$0 : You must enter an integer"
exit 1
fi

if test $1 -gt 0
then
  echo "$1 number is positive"
else
  echo "$1 number is negative"
fi

if test $1 -ge 0
is this correct?

if test $1 -ge 0

#!/bin/sh
#
# Script that demos, command line args
#
echo "Total number of command line argument are $#"
echo "$0 is script name"
echo "$1 is first argument"
echo "$2 is second argument"
echo "All of them are :- $* or $@

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#!/bin/sh
# usage: pizza.sh price1 price2 price3
echo "1. Small"
echo "2. Medium"
echo "3. Large"
echo "Enter your choice[1,2,or 3]:" read choice

is this correct?
fix it.