

Activity: Examine input/output in the Linux shell

Task 1. Generate output with the echo command

```
analyst@cb5d2d035a30:~$ echo hello  
hello  
analyst@cb5d2d035a30:~$ echo "hello"  
hello  
analyst@cb5d2d035a30:~$ echo nurain  
nurain  
analyst@cb5d2d035a30:~$ []
```

Quotation marks become important when:

1. You have spaces
2. You have special characters
3. You want everything treated as ONE argument

Without quotes:

- The shell sees multiple separate words
- With quotes:
 - The shell sees one grouped string
 - It's like saying:
 - Without quotes → 4 separate items
 - With quotes → 1 complete sentence

If your text has:

- Spaces
- Symbols
- Something complicated
- Just use quotation marks. It's safer.

Task 2. Generate output with the expr command

```
analyst@cb5d2d035a30:~$ echo hello
hello
analyst@cb5d2d035a30:~$ echo "hello"
hello
analyst@cb5d2d035a30:~$ echo nurain
nurain
analyst@cb5d2d035a30:~$ expr 32 - 8
24
analyst@cb5d2d035a30:~$ expr 3500 * 12
42000
```

Task 3. Clear the Bash shell

```
analyst@cb5d2d035a30:~$ echo hello
hello
analyst@cb5d2d035a30:~$ echo "hello"
hello
analyst@cb5d2d035a30:~$ echo nurain
nurain
analyst@cb5d2d035a30:~$ expr 32 - 8
24
analyst@cb5d2d035a30:~$ expr 3500 * 12
42000
analyst@cb5d2d035a30:~$ clear
```

```
analyst@cb5d2d035a30:~$ []
```

- *Removes previous commands and output*
- *Moves cursor to top*
- *Creates clean workspace*

Optional task: Perform more calculations with the expr command

```
analyst@cb5d2d035a30:~$ echo "Example text"  
Example text  
analyst@cb5d2d035a30:~$ expr 25 + 15  
40  
analyst@cb5d2d035a30:~$ expr 100 / 4  
25  
analyst@cb5d2d035a30:~$ eco "Example text"  
-bash: eco: command not found  
analyst@cb5d2d035a30:~$ clear[]
```

Purposely made the misspelled command when type echo=eco, to see the error messages return.