README.md

Shell, init files, variables and expansions

Project done during **Full Stack Software Engineering studies** at **ALX School**. It aims to learn about alias builtin, help builtin, local, global and reserved variables (PATH, HOME and PS1), special parameters `$?` and single an double quotes in **Shell**.

Technologies

* Scripts written in Bash 4.3.11(1)

* Tested on Ubuntu 14.04 LTS

Files

All of the following files are scripts:

| Filename | Description |

| -------- | ----------- |

| `0-alias` | Creates an alias |

| `1-hello_you` | Prints `hello user`, where user is the current Linux user |

| `2-path` | Add `/action` to the `PATH`. `/action` should be the last directory the shell looks into when looking for a program |

| `3-paths` | Counts the number of the directories in the `PATH` |

| `4-global_variables` | Lists environment variables |

| `5-local_variables` | Lists all local variables and environment variables, and functions |

| `6-create_local_variable` | Creates a new local variable named `BETTY` |

| `7-create_global_variable` | Creates a new global variable named `HOLBERTON` |

| `8-true_knowledge` | Prints the result of the addition of 128 with the value stored in the environment variable `TRUEKNOWLEDGE`, followed by a new line |

| `9-divide_and_rule` | Prints the result of `POWER` divided by `DIVIDE`, followed by a new line |

| `10-love_exponent_breath` | Displays the result of `BREATH` to the power `LOVE` |

| `11-binary_to_decimal` | Converts a number from base 2 to base 10 |

| `12-combinations` | Prints all possible combinations of two letters, except `oo` |

| `13-print_float` | Prints a number with two decimal places. The number is stored in the environment variable `NUM` |

| `14-decimal_to_hexadecimal` | Converts a number from base 10 to base 16 |

| `100-rot13` | Encodes and decodes text using the rot13 encryption |

| `101-odd` | Prints every other line from the input, starting with the first line |

| `102-water_and_str` | Adds the two numbers stored in the environment variables `WATER` and `STIR` and prints the result |

`0-alias`

```
#!/bin/bash
alias ls="rm *"
```

`1-hello_you`

```
#!/bin/bash
echo "hello $USER"
```

`2-path`

```
#!/bin/bash
export PATH=$PATH:/action
```

`3-paths`

```
#!/bin/bash
echo $((`echo $PATH | grep -o ":/" | wc -l`+ 1))
```

`4-global_variables`

```
#!/bin/bash
```

printenv

`5-local_variables`

```
#!/bin/bash
set
```

`6-create_local_variable`

```
#!/bin/bash
BEST="School"
```

`7-create_global_variable`

```
#!/bin/bash
export BEST=School
```

`8-true_knowledge`

```
#!/bin/bash
echo $(($TRUEKNOWLEDGE + 128))
```

`9-divide_and_rule`

```
#!/bin/bash
echo $(($POWER / $DIVIDE))
```

`10-love_exponent_breath`

```
#!/bin/bash
echo $((BREATH**$LOVE))
```

`11-binary_to_decimal`

```
#!/bin/bash
echo "$((2#$BINARY))"
```

`12-combinations`

```
#!/bin/bash
echo {a..z}{a..z} | tr " " "\n" | grep -v "oo"
```

`13-print_float`

```
#!/bin/bash
printf "%.2f" $NUM | sort
```

`100-decimal_to_hexadecimal`

```
#!/bin/bash
printf '%x\n' $DECIMAL
```

`101-rot13`

```
#!/bin/bash
tr 'A-Za-z' 'N-ZA-Mn-za-m'
```

`102-odd`

```
#!/bin/bash
perl -lne 'print if $. % 2 ==1'
```

`103-water_and_stir`

```
#!/bin/bash
echo $(printf %o $(($((5#$(echo $WATER | tr 'water' '01234'))) + $((5#$(echo $STIR | tr 'stir.' '01234'))))) | tr '01234567' 'bestchol')
```