

heredoc, Positional Parameters !

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NOTE

Assuming you're already logged in

1. heredoc

1.1. Exercise

```
#!/bin/bash

var=$(cat <<EOF
declare -A array=(
  [1,0]="first name"
  [1,1]="second name"
  [2,0]="third name"
  [3,0]="foo bar"
  [test 1]="test bar"
)
EOF
)

echo "$var"

cat <<'EOF'
-----
    for with "${!array[@]}"
-----
for i in "${!array[@]}"; do
    echo "$i => ${array[$i]}";
done

    "result: "
EOF

for i in "${!array[@]}"; do
    echo "$i => ${array[$i]}";
done

echo ""
echo ""

cat << FOE > testfile.sh

declare -A array=(
  [1,0]="first name"
  [1,1]="second name"
  [2,0]="third name"
  [3,0]="foo bar"
  [test 1]="test bar"
)
EOF
)
```

1.2. expansion

```
real_fc="barca"           # set real_fc
win="real_fc"            # $win is "real_fc"
echo "${!win}"           # we print the variable linked by $win's content
```

2. Bash Positional Parameters

- vim testvar.sh
- cut-paste
- chmod +x ./testvar.sh
- ./testvar.sh a1 a2 a3 a4 a5 a6 a7 a8 a9 10 11 12 13

```
echo $#
echo $@
echo $?
```

```
cat <<'EOF'
## = number of arguments.
#@ = what parameters were passed.
$* = what parameters were passed.
$? = was last command successful. Answer is 0 which means 'yes'
EOF
```

```
cat << FOE > testfile.sh
#!/bin/bash
RUSER=$1
ID=$2
SERVICE=$3
SERVICE_STACK=$4
VNCport=$5
RREPLICAS=$6
RREGION=$7
TTYport=$8
PASSWORDrw=$9
PASSWORDview=${10}
GIT_TUTOR=${11}
REBOOT=${12}
USERScope=${13}
FOE
chmod +x ./testfile.sh
```

```
#!/testfile.sh
#
cat << 'FOE' > testfile1.sh
#!/bin/bash
```

```
RUSER=$1
ID=$2
SERVICE=$3
SERVICE_STACK=$4
VNCport=$5
RREPLICAS=$6
RREGION=$7
TTYport=$8
PASSWORDrw=$9
PASSWORDview=${10}
GIT_TUTOR=${11}
REBOOT=${12}
USERscope=${13}
FOE
chmod +x ./testfile1.sh
```

3. extras

- differences @\$ \$*

```
set -- "arg 1" "arg 2" "arg 3"
```

```
for w in $*;  
do  
  echo "$w";  
done
```

```
arg  
1  
arg  
2  
arg  
3
```

```
for w in $@;  
do  
  echo "$w";  
done
```

```
arg  
1  
arg  
2  
arg  
3
```

```
# see "  
for w in "$*";  
do  
  echo "$w";  
done
```

```
arg 1 arg 2 arg 3
```

```
# see "  
for w in "$@";  
do  
  echo "$w";  
done
```

```
arg 1  
arg 2  
arg 3
```