# **Bash Scripting Knowledge Check Solutions**

## **Course Outline**

- 1. Variables
- 2. Arithmetic
- 3. Comparisons and Operators
- 4. If Statements
- 5. If / Else If / Else Statements
- 6. For Loops
- 7. While Loops

#### **Variables**

```
#!/bin/bash
MY_STR="Hi there!"
echo 'My string is: $MY_STR'
echo "My string is: $MY_STR"
```

1. What will be the first line output by this script?

```
My string is: Hi there!
```

2. What will be the second line output by this script?

```
My string is: $MY_STR
```

./example\_script 0 1 2

```
#!/bin/bash
echo $0
echo "Printing $3, $2, $1"
echo $#
```

3. What will be the first line output by this script?

```
./example_script
```

4. What will be the second line output by this script?

```
Printing 2, 1, 0
```

5. What will be the third line output by this script?

3

#### **Arithmetic**

```
./example_script 2 3
```

```
let "num_1 = $1 * $2"
echo $num_1
expr $1 \* $2
```

expr \$1 * \$2 num_2=\$(( num_ echo \$num_2	_1 / \$1 ))	
2 3 6 Error 2. What will be 2 3 6 Error 3. What will be 2 3 6 Error 6 Error	the first line output by this script?  the second line output by this script?  the third line output by this script?  the fourth line output by this script?	
#!/bin/bash expr \$RANDOM %	% 100	
	s script output?  mber between 0 and 100  ons and Operators	
#!/bin/bash [ -z \$1 ] echo \$?		
1. What is the o ./example_sc  0  1	output if the script is called like so?: cript Hello	
Hello No output		
1. What is the o	output if the script is called like so?:	

	./example_script
	0
/	1
	Hello
	No output

#### **If Statements**

```
#!/etc/bash
num_a=1000
num_b=1001
if [ $num_a != $num_b ]
then
  echo "$num_a and $num_b are not the same"
fi
```

What is the output of this script?

1000 and 1001 are not the same

No output

## If / Else If / Else Statements

```
#!/etc/bash
if [ $1 -gt $2 ]
then
  echo "$1"
elif [ $2 -gt $1 ]
then
  echo "$2"
else
  echo "--"
fi
```

What does this script do?

It prints the larger of the two numbers provided, or '--' if they are the same

## For Loops

```
#!/bin/bash
for val in {1..10}
do
echo $val
done
```

1. What will be the first line output by this script?

```
My string is: 1
```

2. What will be the fifth line output by this script?

```
My string is: 5
```

# While Loops