# **Conditional Logic**

• Lets understand Conditional-Logic

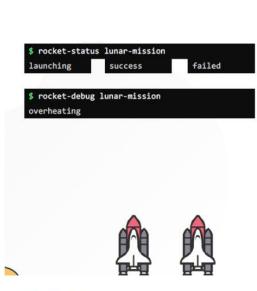
#### Create and Launch Rocket

o To Check the status of the rocket use below command:

```
$ rocket-status lunar-mission
```

 $\circ\;$  To debug the status of the rocket.

\$ rocket-debug lunar-mission





#### **Conditional Statement**

o if is defined as

```
if [ $rocket_status = "failed" ]
then
  rocket-debug $mission_name
fi
```

o elif condition is defined as

```
if [ $rocket_status = "failed" ]
then
  rocket-debug $mission_name
elif [ $rocket_status = "success" ]
then
  echo "This is successful"
fi
```

```
mission_name=$1

mkdir $mission_name

rocket-add $mission_name

rocket-start-power $mission_name

rocket-internal-power $mission_name

rocket-start-sequence $mission_name

rocket-start-engine $mission_name

rocket-lift-off $mission_name

rocket_status=$(rocket-status $mission_name)

if [ $rocket_status = "failed" ]

then

rocket-debug $mission_name

elif [ $rocket_status = "success"]

then

echo "This is successful"

fi
```

o else is written as

```
if [ -d "/home/bob/caleston" ]
then
  echo "Directory exists"
else
  echo "Directory not found"
```

```
rocket-add $mission_name

rocket-start-power $mission_name

rocket-internal-power $mission_name

rocket-start-sequence $mission_name

rocket-start-engine $mission_name

rocket-lift-off $mission_name

rocket_status=$(rocket-status $mission_name)

if [ $rocket_status = "failed" ]

then

rocket-debug $mission_name

elif [ $rocket_status = "success"]

then

echo "This is successful"

else

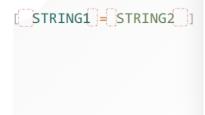
echo "The state is not failed or succesfi
```

#### **Conditional Operators**

o Comparing statement can be used as:

#### **Conditional**

## **Operators**



Example	Description
[ "abc" = "abc" ]	If string1 is exactly equal to string2 (true)
[ "abc" != "abc" ]	If string1 is not equal to string 2 (false)
[ 5 -eq 5 ]	If number1 is equal to number2 (true)
[ 5 -ne 5 ]	If number1 is not equal to number2 (false)
[ 6 -gt 5 ]	If number1 is greater than number2 (true)
[ 5 -lt 6 ]	If number1 is less than number2 (true)

o Conditional Operators that works in bash



### **Conditional**

## **Operators**

```
[[ STRING1 = STRING2 ]]
```

Example	Description
[[ "abcd" = *bc* ]]	If abcd contains bc (true)
[[ "abc" = ab[cd] ]] or [[ "abd" = ab[cd] ]]	If 3 <sup>rd</sup> character of abc is c or d (true)
[[ "ab <mark>e</mark> " = "ab[cd]" ]]	If 3 <sup>rd</sup> character of abc is c or d (false)
[[ "abc" > "bcd" ]]	If "abc" comes after "bcd" when sorted in alphabetical (lexographical) order (false)
[[ "abc" < "bcd" ]]	If "abc" comes before "bcd" when sorted in alphabetical (lexographical) order (true)

Only in BASH

o and on Operators

#### **Conditional**

### **Operators**

```
[ COND1 ] && [ COND2 ]

[[ COND1 && COND2 ]]

[ COND1 ] || [ COND2 ]

[[ COND1 || COND2 ]]
```

Example	Description
[[ A -gt 4 && A -lt 10 ]]	If A is greater than 4 and less than 10
[[ A -gt 4    A -lt 10 ]]	If A is greater than 4 or less than 10

o Conditional operation description

### **Conditional**

## **Operators**

Example	Description
[-eFILE]	if file exists
[ -dFILE ]	if file exists and is a directory
[ -sFILE ]	If file exists and has size greater than 0
[ -x FILE ]	If the file is executable
[ -w FILE ]	If the file is writeable