**Conditional Statements**

A picture containing table

Description automatically generated  
**if\_else.sh**

#!/bin/bash

num\_a=100

num\_b=200

if [ $num\_a -lt $num\_b ]; then

echo "$num\_a is less than $num\_b!"

fi

**Update if\_else.sh**

#!/bin/bash

num\_a=400

num\_b=200

if [ $num\_a -lt $num\_b ]; then

echo "$num\_a is less than $num\_b!"

else

echo "$num\_a is greater than $num\_b!"

fi

**Updated backup.sh**

#!/bin/bash

user=$(whoami)

input=/home/$user

output=/tmp/${user}\_home\_$(date +%Y-%m-%d\_%H%M%S).tar.gz

function total\_files {

find $1 -type f | wc -l

}

function total\_directories {

find $1 -type d | wc -l

}

function total\_archived\_directories {

tar -tzf $1 | grep /$ | wc -l

}

function total\_archived\_files {

tar -tzf $1 | grep -v /$ | wc -l

}

tar -czf $output $input 2> /dev/null

src\_files=$( total\_files $input )

src\_directories=$( total\_directories $input )

arch\_files=$( total\_archived\_files $output )

arch\_directories=$( total\_archived\_directories $output )

echo "Files to be included: $src\_files"

echo "Directories to be included: $src\_directories"

echo "Files archived: $arch\_files"

echo "Directories archived: $arch\_directories"

if [ $src\_files -eq $arch\_files ]; then

echo "Backup of $input completed!"

echo "Details about the output backup file:"

ls -l $output

else

echo "Backup of $input failed!"

fi