## Linux Classroom Series – 08/Sept/2020

## Returning Text from functions

· Look at the following script

```
#!/bin/bash
return_using_globalvar() {
    return_value="How are you"
}

print_message() {
    input="$1"
    echo "Message is ${input}"
}

return_text_by_echo() {
    input="$1"
    echo "Message is ${input}"
}

# solution 1: Using global variables
return_using_globalvar
echo "${return_value}"
```

```
# solution 2: Read the output
read -p "Enter your message "
return_test=$(return_text_by_echo "$REPLY")
echo "$return test"
```

## **Recursive Functions**

#!/bin/bash

· Function that calls itself is recursive functions

```
calculate_factorial() {
   if [ $1 -eq 1 ]
   then
      echo 1
   else
      local var=$(( $1 - 1 ))
      local res=$(calculate_factorial $var)
      echo $(( $res * $1 ))
   fi
}

read -p "Enter a number: " val
factorial=$(calculate_factorial $val)
echo "Factorial of $val is: $factorial"
```

- Exercise:
- Write a function to download a file from internet to desired location download item "<ur>
   "<location>"
- 2. Write a function to extract a tar to a specific location untar file <tar location> <extract location>