# Operating System – Lab Exercises

Session – Bash Scripting & System Utilities

## Lab 1: Read lines from a file (10 min)

Create a file with random text, call it “myfile.txt”.  
Read the file line by line.

## Lab 2: Print Positional Parameters

Create script: args.sh  
Print the following:  
- $# (number of arguments)  
- $0 (script name)  
- $1, $2 (first and second arguments)  
- $@ (all arguments)  
Run: ./args.sh A B C and ./args.sh "hello" "world"

## Lab 3: Creating Users with a Function (20 min)

Create script: adduser.sh  
Define a function `add\_a\_user`  
Use positional parameters to:  
- Assign $1 to USER  
- Assign $2 to PASSWORD  
- Use shift to remove the first two arguments  
- Assign the rest ($@) to COMMENTS  
Simulate creating users with echo commands.  
Call the function twice with different arguments.

## Lab 4: Greeting Function with Validation

Create script: greet.sh  
Define a function `greet\_user` that takes a name.  
If name is missing, show an error.  
Otherwise, print: "Hello, NAME. Today is DATE."  
Example:  
./greet.sh Thomas  
Result: Hello, Thomas. Today is <current date>