# Shell Scripting – Lab Exercises

Session 6 – Basics & Automation

## Lab 1: Swapping Two Variables (10 min)

Create a script `swap.sh` that:  
- Asks the user to enter two values (A and B)  
- Swaps the values  
- Displays the new values

## Lab 2: Fahrenheit to Celsius (10 min)

Create a script `degconv.sh` that:  
- Asks for a temperature in Fahrenheit  
- Converts it to Celsius using the formula  
- Displays the result

## Lab 3: Mini Calculator (20 min)

Create a script `calc.sh` that:  
- Asks for two numbers  
- Shows a menu (add, subtract, multiply, divide)  
- Uses case and arithmetic to display the result

## Lab 4: Biggest of Three Numbers (15 min)

Create a script `big3.sh` that:  
- Asks the user to enter three numbers  
- Uses if statements to find and display the biggest number

## Lab 5: Grade Determination (15 min)

Create a script `grade.sh` that:  
- Asks the user to enter a mark (0–100)  
- Displays a grade based on the mark using if/elif/else

## Lab 6: Vowel or Consonant (10 min)

Create a script `vowel.sh` that:  
- Asks the user to input one lowercase letter  
- Uses a case structure to determine if it’s a vowel or a consonant

## Lab 7: Check lines and words (20 min)

Create a script `filecount.sh` that:  
- Asks for a file name  
- Checks if it exists  
- If yes, displays number of lines and words using `wc`