



# ASSIGNMENT 16

COURSE

Bash Scripting| Level: Beginner to Intermediate

SUBMITTED ON

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# Class 16 Assignment: Introduction to Bash Scripting and GitHub

## Introduction

In Class 16 of the IT & Japanese Language Course, supported by AOTS and the Overseas Employment Corporation (OEC), we explored the fundamentals of **Bash Scripting** and its applications for AI engineers. The lecture covered creating and running Bash scripts, working with variables, control structures, functions, and automation use cases in DevOps. We also discussed the importance of GitHub for sharing and managing code. This assignment fulfills the requirements to:

1. Create two Bash scripts (sum.sh and login.sh) as specified in the lecture tasks.
2. Write a LinkedIn post summarizing the lecture and tag required entities.
3. Upload the scripts to GitHub and share the profile link in the designated WhatsApp group.

The following sections provide the completed tasks, the LinkedIn post, and instructions for GitHub submission.

## Task 1: Create sum.sh

**Objective:** Write a Bash script with a function that adds two numbers and outputs the result.

**Code:**

```
#!/bin/bash

# Function to add two numbers
add() {
    local sum=$(( $1 + $2 ))
    echo "Sum is: $sum"
}

# Call the function with arguments 5 and 10
add 5 10
```

**Instructions:**

1. Save the code in a file named sum.sh using a text editor.
2. Make the script executable: `chmod +x sum.sh`.

3. Test the script: ./sum.sh.
  - **Output:** Sum is: 15

## Task 2: Create login.sh

**Objective:** Write a Bash script that prompts the user for a username and displays "Welcome, admin!" if the username is "admin", otherwise "Access Denied."

**Code:**

```
#!/bin/bash

# Prompt user for username
read -p "Enter username: " user

# Check if username is admin
if [ "$user" = "admin" ]; then
    echo "Welcome, admin!"
else
    echo "Access Denied."
fi
```

**Instructions:**

1. Save the code in a file named login.sh using a text editor (e.g., nano login.sh).
2. Make the script executable: chmod +x login.sh.
3. Test the script: ./login.sh.
  - Input admin → **Output:** Welcome, admin!
  - Input any other username (e.g., test) → **Output:** Access Denied.