**## Practice Projects on Module 1 Topics (variable, constant, if else, switch)**

### 1. Number Classifier

\* Concepts Used: Variables, If-Else

\* Description:

\* Input a number through the terminal or define it in the script.

\* Use if-else to classify the number as positive, negative, or zero.

### 2. Basic Authentication System

\* Concepts Used: Variables, Constants, If-Else

\* Description:

\* Use constants to store a predefined username and password.

\* Use variables to simulate a login attempt by assigning user input values.

\* Use if-else to check if the credentials match the stored constants and display success or failure messages.

### 3. Simple Electricity Bill Calculator

\* Concepts Used: Variables, If-Else

\* Description:

\* Use a variable for units consumed.

\* Define slabs for billing using if-else (e.g., 1–100 units = $5, 101–200 units = $10, 201 to above units = $15).

\* Calculate and display the total bill based on the entered units.

### 4. Temperature Converter

\* Concepts Used: Variables, Constants, Switch

\* Description:

\* Use a constant for the conversion formula.

\* Ask the user to enter a temperature value in Celsius or Fahrenheit through PHP’s readline() function in the terminal.

\* Use a switch statement to select the type of conversion (Celsius to Fahrenheit or Fahrenheit to Celsius).