**UNIT – II**

**SCRIPTING CHALLENGE**

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| **S.No** | **Team No** | **Topic** | **Challenge** |
| 1 | T1 | General Purpose Command | Write a Bash script that prompts the user to enter a command and executes it. Additionally, capture the command output and display it with a timestamp. |
| 2 | T2 | Redirection Operators | Create a script that redirects the output of a command to a file. Allow the user to specify the filename as an argument. Ensure the script checks for existing files and prompts the user for confirmation before overwriting. |
| 3 | T3 | Echo Command | Build a script that echoes a custom welcome message to the user based on the time of day. Use the date command to determine whether it's morning, afternoon, or evening. |
| 4 | T4 | Working with Variables | Develop a script that prompts the user for their name and age. Store these values in variables and use them to generate a personalized greeting along with their birth year. |
| 5 | T5 | Grep Command | Create a script that searches for a specific pattern within a given text file. Allow the user to input the pattern and the file name. Display the matching lines along with line numbers. |
| 6 | T6 | Cut Command | Write a script that processes a CSV file and extracts specific columns based on user input. Allow the user to specify the input file and the column numbers to be extracted. |
| 7 | T7 | Logical Operators | Build a script that checks if a user-supplied number is even or odd. Use logical operators to validate the input and provide appropriate feedback. |
| 8 | T8 | Scheduling Jobs | Develop a script that schedules a task to run at a specific time using the at command. Prompt the user for the command and the time at which it should be executed. |
| 9 | T9 | Arithmetic Operations | Create a script that performs basic arithmetic operations (addition, subtraction, multiplication, division) on two user-supplied numbers. Display the results with appropriate formatting. |
| 10 | T10 | Conditional Statements | Write a script that prompts the user for their age and provides different messages based on whether they are a child, teenager, adult, or senior citizen. |