**Python: As a scripting language**

**Subject - Unix Operating System**

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**Assignment No – 10(g)**

**Title-** Write a bash script that takes 2 or more arguments,  
i) All arguments are filenames  
ii) If fewer than two arguments are given, print an error message  
iii) If the files do not exist, print error message  
iv) Otherwise concatenate files

**Objective:**

1. To learn about python as scripting option.

**Theory:**

A Bash script can be used to automate file operations, such as checking the existence of files and concatenating them.

1. **Handling Command-Line Arguments:**

* $# gives the number of arguments passed to the script.
* If fewer than two arguments are given, the script prints an error message and exits.

1. **Checking File Existence**

* The -e flag in the [ -e filename] condition checks if a file exists.
* If any of the given files do not exist, the script prints an error message and exits.

1. **Concatenating Files**

* The cat command is used to merge multiple files and display the output.
* The result can be redirected to another file if needed.

By combining these concepts, we can create a script that validates input and performs file concatenation accordingly.

**Program:**

#!/bin/bash

# Check if fewer than two arguments are provided

if [ "$#" -lt 2 ]; then

  echo "Error: Please provide at least two filenames."

  exit 1

fi

# Check if all files exist

for file in "$@"; do

  if [ ! -f "$file" ]; then

    echo "Error: File '$file' does not exist."

    exit 1

  fi

done

# Concatenate the files

cat "$@" > concatenated\_output.txt

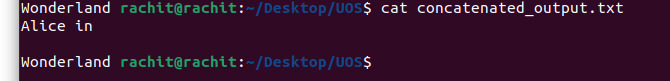
echo "Files have been successfully concatenated into 'concatenated\_output.txt'."

**Output:**

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**Conclusion:**This script ensures that users provide at least two valid filenames before performing concatenation. By checking for missing files, it prevents errors caused by non-existent inputs. The use of cat allows seamless merging of file contents, making this script useful for text file processing and log file management.