# **Assignment 3: Shell scripts**

# **Question 1:** Script to print All .txt and .c files in the current directory

Shell script to print All .txt and .c files in the current directory:

```
| Summar | S
```

## **Output:**

```
prarthanal305@Prarthana:-$ nano print.sh
prarthanal305@Prarthana:-$ chmod +x print.sh
prarthanal305@Prarthana:-$ /print.sh
prarthanal305@Prarthana:-$ /print.sh
No .c files found. Creating dummy file ...
Listing all .tx files:
greetings.txt jsl.txt js3.txt markssheet.txt numbers.txt
Listing all .c files:
dummv.c
dummv.c
```

#### Summary of the approach:

- Checks for .txt and .c files using Is \*.txt and Is \*.c.
- Creates dummy files if none exist.
- Lists all .txt and .c files in the directory.

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#### **Keyword Usage:**

- Is → Lists files in the directory.
- 2>/dev/null → Suppresses error messages.
- if [-z "\$variable"] → Checks if a variable is empty.
- > → Redirects output to a file (creates or overwrites).
- echo → Writes text to the terminal or files.

# **Question 2:** Script to Add Two Numbers

### Shell script to add two numbers:

```
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# Addnumbers.sh

# Prompt user to enter the first number:

# Prompt user to enter the second number

# Prompt user to enter the second number:

# Prompt user to enter the first number:

# Prompt user to enter the firs
```

#### **Output:**

```
prarthanal305@Prarthana:-$ nano addnumbers.sh
prarthanal305@Prarthana:-$ chmod +x addnumbers.sh
prarthanal305@Prarthana:-$ ./addnumbers.sh
Enter the first number:
452
Enter the second number:
6589
The sum of 452 and 6589 is: 7041
```

## Summary of the approach to add two numbers

- Reads user input using read for two numbers.
- Performs addition using \$((num1 + num2)).
- Displays the result using echo.

#### **Keyword Usage:**

- $\#!/bin/bash \rightarrow Specifies$  the script should be executed with Bash.
- ullet echo  $\rightarrow$  Prints messages to the terminal.
- read → Captures user input.
- $\$((expression)) \rightarrow Performs$  arithmetic operations.

#### **Output:**

- Checks for .txt and .c files using Is \*.txt and Is \*.c.
- Creates dummy files if none exist.
- Lists all .txt and .c files in the directory