lab04.md 2025-09-09

LAB 3 – Enhanced Number Script

Original Behavior

```
##!/bin/bash

# Get inputs from user

iread -p "Enter start number: " start

read -p "Enter end number: " end

read -p "Enter step (positive number): " step

# Validate step

if ! [[ "$step" =~ ^[0-9]+$ ]] || [ "$step" -le 0 ]; then

echo "Error: Step must be a positive integer."

exit 1

fi

# Loop from start to end with step

for (( i=start; i<=end; i+=step ))

do

echo "Number: $i"

done
```

OUTPUT:

lab04.md 2025-09-09

```
bhaktib0108@bhaktib0108-VirtualBox:~$ cd scripts
bhaktib0108@bhaktib0108-VirtualBox:~/scripts$ touch print_numbers.sh
bhaktib0108@bhaktib0108-VirtualBox:~/scripts$ nano print_numbers.sh
bhaktib0108@bhaktib0108-VirtualBox:~/scripts$ nano print_numbers.sh
bhaktib0108@bhaktib0108-VirtualBox:~/scripts$ chmod enhanced numbers.sh
chmod: missing operand after 'enhanced_numbers.sh'
Try 'chmod --help' for more information.
bhaktib0108@bhaktib0108-VirtualBox:~/scripts$ chmod 777 enhanced_numbers.sh
bhaktib0108@bhaktib0108-VirtualBox:~/scripts$ ./enhanced_numbers.sh
Enter start number: 2
Enter end number: 10
Enter step (positive number): 2
Number: 4
Number: 6
Number: 8
Number: 10
bhaktib0108@bhaktib0108-VirtualBox:~/scripts$
```

Script: print_numbers.sh

• Printed numbers from 1 to 5 using a hardcoded for loop:

```
for i in 1 2 3 4 5
do
echo "Number: $i"
done
```