Project

- 1. Shell program to add two integer values. And check if any input is given or not.
- Step -1: Created a Script file using touch command as "Integer.sh".
- Step -2: Opened a nano file to write the Script.
- Step -3: Changes the file permission.

```
Program:

② root@eb5c7dd95fe1583:~# chmod +x integer.sh
root@eb5c7dd95fe1583:~# chmod +x integer.sh

By root@eb5c7dd95fe1583:~# chmod +x integer.sh

□ root@eb5c7dd95
```

Output:

```
root@8b5c7dd85f81583:~# ./integer.sh
Input1 : 5
Input2 : 7
BC Value : 12
EXPR Value : 547
```

- 2. Simple example of a shell script that prompts the user for their name and greets them.
- Step -1: Created a Script file using touch command as "greet.sh".
- Step -2: Opened a nano file to write the Script.
- Step -3: Changes the file permission.

```
Program:

Program:

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Oracl@8b5c7dd85f01583:~# chmod +x greet.sh

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Oracl@8b5c7dd85f01583:~# chmod +x greet.sh

A greet.sh

Sho "Wello! What is your name?"

read name echo "Hello, $name! Welcome to the world of Shell Scripting"
```

```
root@805c7dd85f01583:~# ./greet.sh
Hello! What is your name?
Pradhisha
Hello, Pradhisha! Welcome to the world of Shell Scripting
```

3. Script for Array sum

- Step -1: Created a Script file using touch command as "array_sum.sh".
- Step -2: Opened a nano file to write the Script.
- Step -3: Changes the file permission.

4. Script for Palindrome numbers

- Step -1: Created a Script file using touch command as "panlin.sh".
- Step -2: Opened a nano file to write the Script.
- Step -3: Changes the file permission.

```
Program:

O root@865c7dd85f01589:--

GNU nano 7.2

panlin.sh

cho "Enter the number:"

read n

num_$n

rev=0

while [ $n -gt 0 ]

do

a=$(expr $n % 10)

nev=$(expr $n / 10)

rev=$(expr $rev \dagger 10 + $a)

done

echo "The number is a palindrome!"

else

echo "The number is not a palindrome number!"

fl
```

```
root@05c7dd05f01583:~# ./panlin.sh
Enter the number:
151
The number is a palindrome!
```

5. Script for Bubblesort

- Step -1: Created a Script file using touch command as "bubblesort.sh".
- Step -2: Opened a nano file to write the Script.
- Step -3: Changes the file permission.

```
root@8b5c7dd85f01583:~# touch bubblesort.sh
root@8b5c7dd85f01583:~# rano bubblesort.sh
root@8b5c7dd85f01583:~# chano +x bubblesort.sh
```

Program:

Output:

```
root@8bSc7dd85f01583:~# ./bubblesort.sh
Entered array:
10 8 20 100 12
Sonted array:
8 10 12 20 100
```

6. Script for Pascal Triangle

- Step -1: Created a Script file using touch command as "pascal.sh".
- Step -2: Opened a nano file to write the Script.
- Step -3: Changes the file permission.

```
root@8b5c7dd85f01583:~# touch pascal.sh
root@8b5c7dd85f01583:~# nano pascal.sh
root@8b5c7dd85f01583:~# chmod +x pascal.sh
```

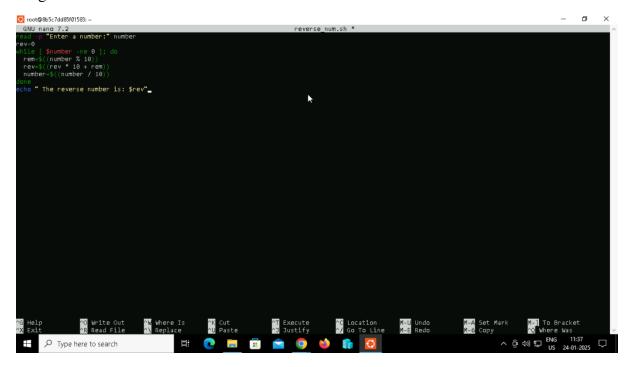
Program:

7. Script for Reverse Number

- Step -1: Created a Script file using touch command as "Reverse_num.sh".
- Step -2: Opened a nano file to write the Script.
- Step -3: Changes the file permission.

```
root@8b5c7dd85f01583:~# touch reverse_num.sh
root@8b5c7dd85f01583:~# nano reverse_num.sh
root@8b5c7dd85f01583:~# chmod +x reverse_nom.sh
```

Program:



```
root@8b5c7dd85f81583:~# ./reverse_num.sh
Enter a number:2345
The reverse number is: 5432
root@8b5c7dd85f81583:~# _
```