PROJECT

1. Shell Program to add two integer values and check if any input is given or not.

Step 1: Create an "integer.sh" script file using touch command

Step 2: Create a nano file to write the code

```
      O root@serverid:~
      − □ X

      root@serverid:~# touch integer.sh
      root@serverid:~# chmod +X integer.sh

      root@serverid:~# chmod +X integer.sh
      root@serverid:~# ./integer.sh
```

Step 3: Write the Code in integer script file

Step 4: Output

```
root@serverid:~# ./integer.sh
Input1: 10
Input2: 20
BC value: 30
EXPR ∀alue: 10+20
root@serverid:~# _
```

2. Simple example of a shell script that prompt the user for their name and greets them

Step1: Create an "hello.sh" script file using touch command

Step 2: Create a nano file to write the code

```
root@serverid:∾# touch hello.sh
root@serverid:∾# nano hello.sh
```

Step3: Write the Code in nano hello.sh script file

```
orot@serverid:~

GNU namo 7.2

#Prompt the user for their name
echo "Hello! What's your name?"
read name
#Greet the user with a personalized message
echo "Hello, $name! Welcome to the world of shell scripting!"
```

```
root@serverid:~# ./hello.sh
Hello! What's your name?
Mamatha
Hello, Mamatha! Welcome to the world of shell scripting!
root@serverid:~# _
```

3. Shell Program to perform array sum

Step 1: Create an "arraysum.sh" script file using touch command

Step 2: Create a nano file to write the code

```
root@serverid:∾# touch arraysum.sh
root@serverid:∾# nano arraysum.sh
root@serverid:∾# chmod +x arraysum.sh
```

Step 3: Write the Code in nano arraysum.sh script file

```
OND nano 7.2

#I/bin/bash

# Prompt the user to input the array
echo "Enter numbers for the array"
read - arra
sum -0

if (arr[i] > 0); then

if (arr[i] > 0); then
fisum-5(expr $sum + ${arr[i]})

done
echo "Sum is: $sum"
```

Step 4: Output

```
root@serverid:~# ./arraysum.sh
Enter numbers for the array
2 4 -5 -8 9 12
Sum is: 27
root@serverid:~# _
```

4. Shell Program to verify the number is palindrome number or not?

Step 1: Create an "palindrome.sh" script file using touch command

Step 2: Create a nano file to write the code

```
root@serverid:∽# touch palindrome.sh
root@serverid:∼# nano palindrome.sh
root@serverid:∼# chmod +X palindrome.sh
```

Step 3: Write the Code in nano palindrome.sh script file

```
Proof@serverid: ~

GNU namo 7.2

palindrome.sh

cho "Enter the number:"

read n

num.sn

rev=0

mile [sn -gt 0]

do

a="expr sn % 10

n="expr sn / 10

rev=expr srev \* 10 + $a"

done

echo Srev

if [snum -eq srev]

then

echo "The number is a palindrome number!"

il
```

```
root@serverid:-# ./palindrome.sh
Enter the number:
121
121
121
121
The number is a palindrome!
root@serverid:-# ./palindrome.sh
Enter the number:
256
652
The number is not a palindrome number!
root@serverid:-# ./palindrome number!
```

5. Shell Program to perform Bubble sort?

- Step 1: Create an "bubblesort.sh" script file using touch command
- Step 2: Create a nano file to write the code

```
root@serverid:~# touch bubblesort.sh
root@serverid:~# nano bubblesort.sh
root@serverid:~# chmod +X bubblesort.sh
```

Step 3: Write the Code in nano bubblesort.sh script file

Step 4: Output

```
root@serverid:~# ./bubblesort.sh
Entered array:
10 8 20 100 12
Sorted array:
3 Go to Settings to activate Windows.
8 10 12 20 100
graph@serverid:~# ./bubblesort.sh
Go to Settings to activate Windows.
```

6. Shell Program to perform Pascals triangle?

Step 1: Create an "pascaltriangle.sh" script file using touch command

Step 2: Create a nano file to write the code

```
root@serverid:~# touch pascaltriangle.sh
root@serverid:~# nano pascaltriangle.sh
root@serverid:~# nano pascaltriangle.sh
root@serverid:~# chmod +x pascaltriangle.sh
```

Step 3: Write the Code in nano pascaltriangle.sh script file

```
      ☑ NOW nano 7.2
      pascaltriangle.sh *

      Shell program to print Pascal triangle...
      pascaltriangle.sh *

      osstri()
      pascaltriangle.sh *

      osstri()
      pascaltriangle.sh *

      osstri()
      pascaltriangle.sh *

      osstrict
      p
```

7. Shell Program to perform Reverse of a Number

Step 1: Create an "reversenums.sh" script file using touch command

Step 2: Create a nano file to write the code

```
root@serverid:~# touch reversenums.sh
root@serverid:~# nano reversenums.sh
root@serverid:~# chmod +x reversenums.sh
Activate Windows
```

Step 3: Write the nano reversenums.sh script file

```
root@serverid:~# ./reversenums.sh

Enter a number:4321 Go to Settings to activate Windows.

The reverse number is: 1234

root@serverid:~# _
```