# Experiment [4]: [Bash Scripting]

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#### AIM:

• [To Learn Basics of Bash Scripting.]

#### Requirements:

• [Any Linux Distro, any kind of text editor (vs code, vim, notepad, nano, etc)]

### Theory:

• [Learning the basics of bash scripting.]

### **Procedure & Observations**

### Exercise 1: [Hello World Script]

### Task Statement:

• [Basic Usage of Shell Scripts]

## **Explanation:**

• [Writing Begginer level Shell Scripts]

## Command(s):

```
#!/bin/bash
echo "Hello, World!"
```

#### **Output:**



## Exercise 2: [Personalized Greeting Script]

#### Task Statement:

• [Basic Shell Script to callout user defined function.]

## **Explanation:**

• [This Shell script will take input from user and store it in a variable and then call the variable which will output the stored value.]

### Command(s):

```
#!/bin/bash
echo "What is your name?"
read name
echo "Hello, $name! Welcome to Shell Scripting."
```

### Output:

```
vinit@LAPTOP-P8DCHODS:/mnt/c/Users/HP/OneDrive/Desktop/day 4$ vim name.sh
vinit@LAPTOP-P8DCHODS:/mnt/c/Users/HP/OneDrive/Desktop/day 4$ cat name.sh

#!/bin/bash
echo "what is your name ?"
read name
echo "hello ,$name! welcome to shell scripting."
vinit@LAPTOP-P8DCHODS:/mnt/c/Users/HP/OneDrive/Desktop/day 4$ |
```

## Exercise 3: [Arithmetic Operations in Shell Scripting]

### Task Statement:

• [Using Basic Arithmetic Operations in Shell Scripts]

### Command(s):

```
#!/bin/bash
echo "Enter first number: "
read num1
echo "Enter second number: "
read num2

echo "Addition: $((num1 + num2))"
echo "Subtraction: $((num1 - num2))"
echo "Multiplication: $((num1 * num2))"
echo "Division: $((num1 / num2))"
```

## Output:

```
vinit@LAPTOP-P8DCHODS:/mnt/c/Users/HP/OneDrive/Desktop/day 4$ vim maths.sh
vinit@LAPTOP-P8DCHODS:/mnt/c/Users/HP/OneDrive/Desktop/day 4$ cat maths.sh
#!/bin/bash
echo "enter first number:"
read num1
echo "enter second number:"
read num2
echo "addition:$((num1 + num2))"
echo "substraction:$((num1 - num2))"
echo "multiplication: $((num1 + num2))"
echo "division: $((num1 / num2))"
vinit@LAPTOP-P8DCHODS:/mnt/c/Users/HP/OneDrive/Desktop/day 4$
```

### Exercise 4:

• [Voting Eligibility]

#### Task Statement:

• [Using Conditionals in Shell script]

### Command(s):

```
#!/bin/bash
echo "What is your age?"
read age
if [ $age -ge 18 ]; then

    echo "You are eligible to vote!"

else
    echo "You are not eligible to vote!"

fi
```

# Output:

### Result

The Exercises were successfully completed for Basic Shell Scripting