

# LAB4

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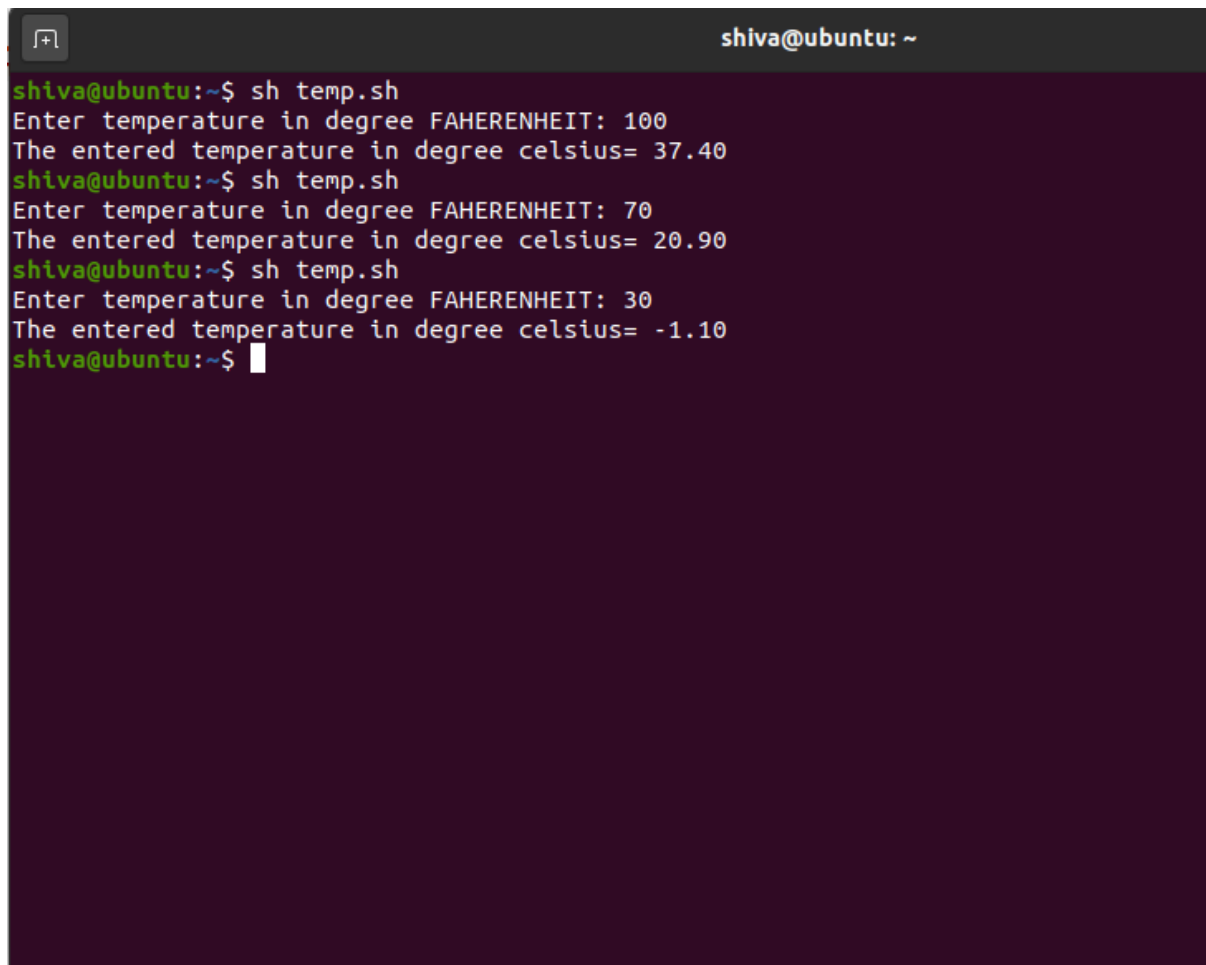
1. Write a Shell Script to find Fibonacci Series Upto N using While loop Construct. (Eg 7 0 1 1 2 3 5 8)

OUTPUT:

```
shiva@ubuntu: ~  
shiva@ubuntu:~$ sh fib.sh  
Enter a number  
8  
The Fibonacci series is :  
0  
1  
1  
2  
3  
5  
8  
13  
shiva@ubuntu:~$ sh fib.sh  
Enter a number  
10  
The Fibonacci series is :  
0  
1  
1  
2  
3  
5  
8  
13  
21  
34  
shiva@ubuntu:~$
```

2. Write a Shell Script to convert the Temperatures FAHERENHEIT to Celsius .  $(f - 32) * 5 / 9$

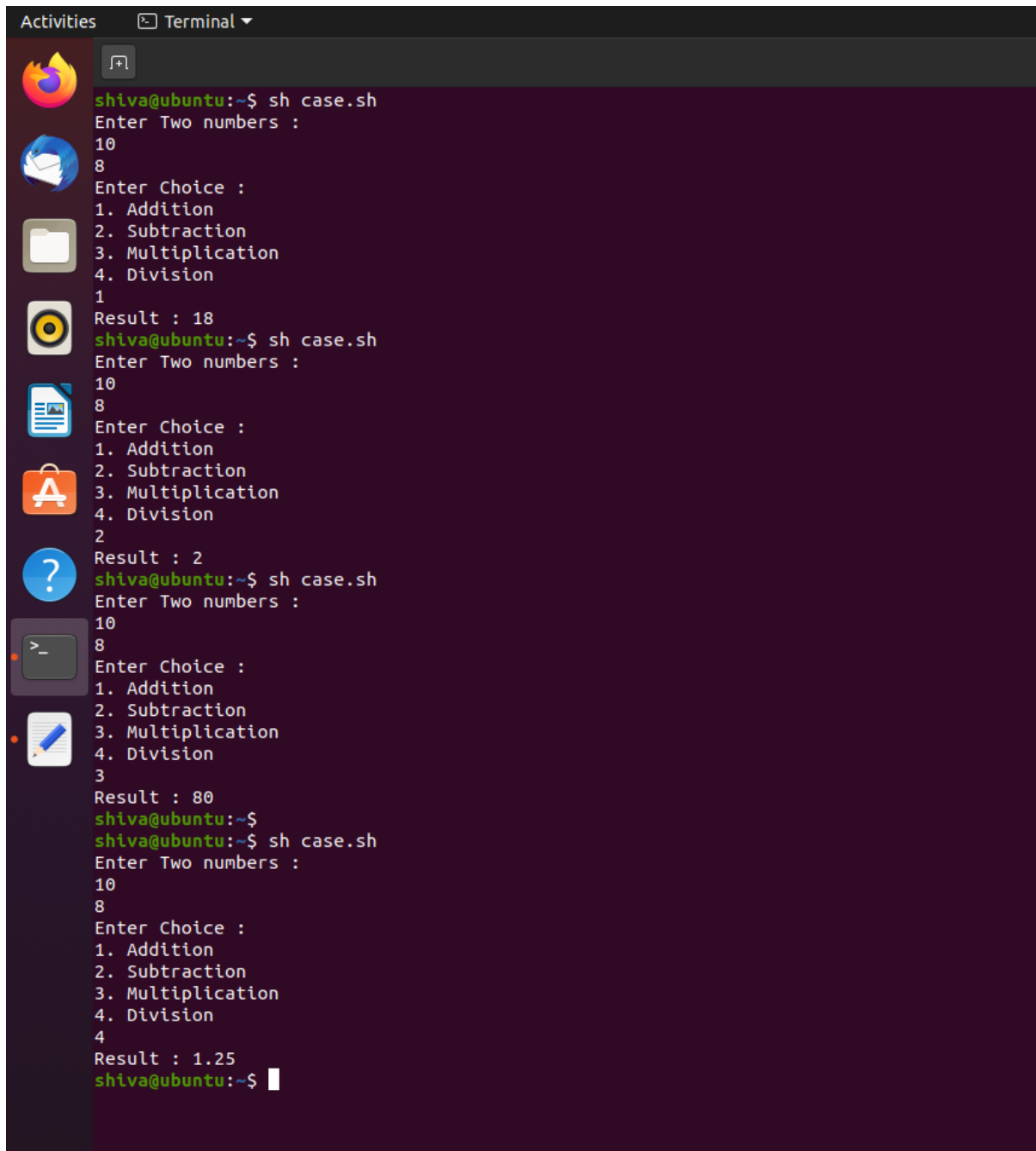
OUTPUT:

A terminal window with a dark background and light green text. The window title is 'shiva@ubuntu: ~'. The user has executed the command 'sh temp.sh' three times. Each execution prompts for a Fahrenheit temperature and displays the corresponding Celsius value calculated using the formula  $(f - 32) * 5 / 9$ . The first run shows 100°F converted to 37.40°C. The second run shows 70°F converted to 20.90°C. The third run shows 30°F converted to -1.10°C. The prompt 'shiva@ubuntu:~\$' is followed by a cursor after each run.

```
shiva@ubuntu:~$ sh temp.sh
Enter temperature in degree FAHERENHEIT: 100
The entered temperature in degree celsius= 37.40
shiva@ubuntu:~$ sh temp.sh
Enter temperature in degree FAHERENHEIT: 70
The entered temperature in degree celsius= 20.90
shiva@ubuntu:~$ sh temp.sh
Enter temperature in degree FAHERENHEIT: 30
The entered temperature in degree celsius= -1.10
shiva@ubuntu:~$
```

3. Shell script to perform ARITHMETIC OPERATIONS on given two numbers using Case statement syntax.

OUTPUT:

A screenshot of a Linux terminal window titled 'Terminal'. The user 'shiva@ubuntu' runs a script 'sh case.sh'. The script prompts for two numbers (10 and 8) and a choice from a menu: 1. Addition, 2. Subtraction, 3. Multiplication, 4. Division. The first run shows 'Result : 18' for addition. The second run shows 'Result : 2' for subtraction. The third run shows 'Result : 80' for multiplication. The fourth run shows 'Result : 1.25' for division. The terminal output is as follows:

```
shiva@ubuntu:~$ sh case.sh
Enter Two numbers :
10
8
Enter Choice :
1. Addition
2. Subtraction
3. Multiplication
4. Division
1
Result : 18
shiva@ubuntu:~$ sh case.sh
Enter Two numbers :
10
8
Enter Choice :
1. Addition
2. Subtraction
3. Multiplication
4. Division
2
Result : 2
shiva@ubuntu:~$ sh case.sh
Enter Two numbers :
10
8
Enter Choice :
1. Addition
2. Subtraction
3. Multiplication
4. Division
3
Result : 80
shiva@ubuntu:~$
shiva@ubuntu:~$ sh case.sh
Enter Two numbers :
10
8
Enter Choice :
1. Addition
2. Subtraction
3. Multiplication
4. Division
4
Result : 1.25
shiva@ubuntu:~$
```

4) check whether the entered character is Vowel or consonant

OUTPUT:

Player ▾ | || ▾ | [ ] [ ]

```
Activities  ▾  Terminal ▾  
shiva@ubuntu:~$ sh vowel.sh  
Enter any character:  
a  
It is a vowel.  
shiva@ubuntu:~$ sh vowel.sh  
Enter any character:  
A  
It is a vowel.  
shiva@ubuntu:~$ sh vowel.sh  
Enter any character:  
s  
It is a consonant  
shiva@ubuntu:~$ sh vowel.sh  
Enter any character:  
S  
It is a consonant  
shiva@ubuntu:~$ sh vowel.sh  
Enter any character:  
I  
It is a vowel.  
shiva@ubuntu:~$ sh vowel.sh  
Enter any character:  
o  
It is a vowel.  
shiva@ubuntu:~$ sh vowel.sh  
Enter any character:  
u  
It is a vowel.  
shiva@ubuntu:~$ sh vowel.sh  
Enter any character:  
e  
It is a vowel.  
shiva@ubuntu:~$
```