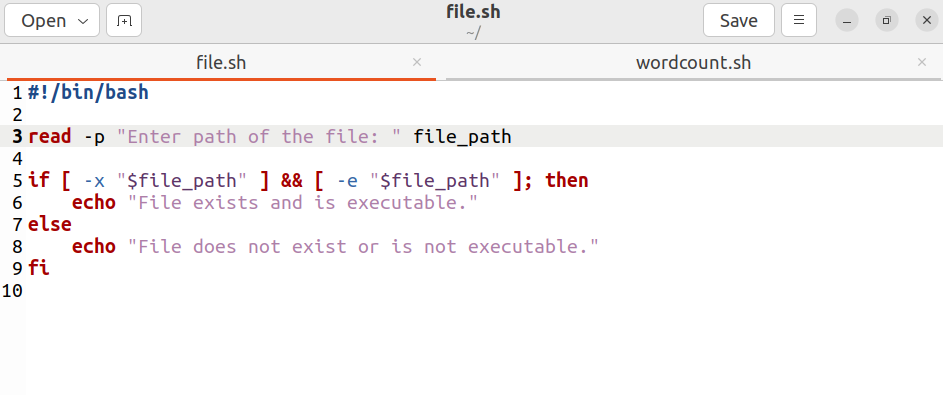
**MODULE 4**

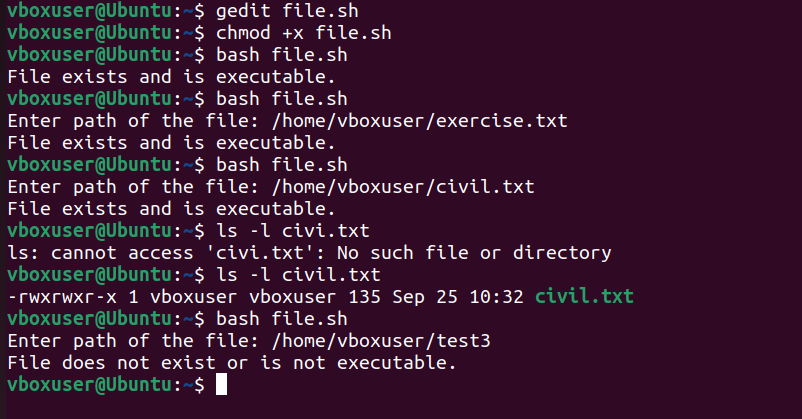
**ASSIGNMENT 1**

**Logical Operators**

**1) Check whether the file exists and is executable using logical operators.**

**Hint:man test**

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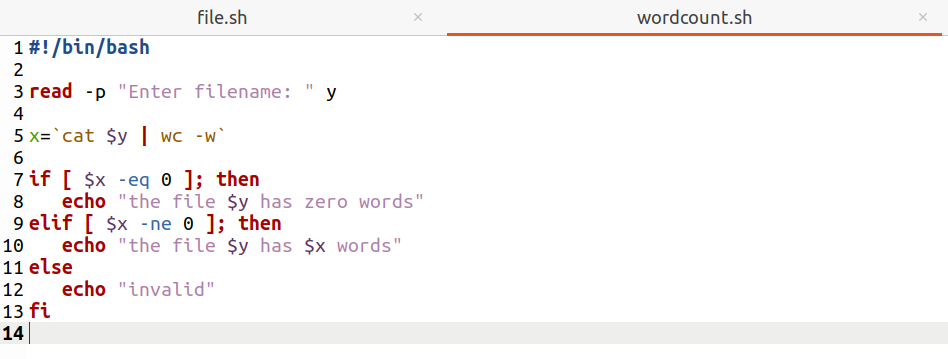
****

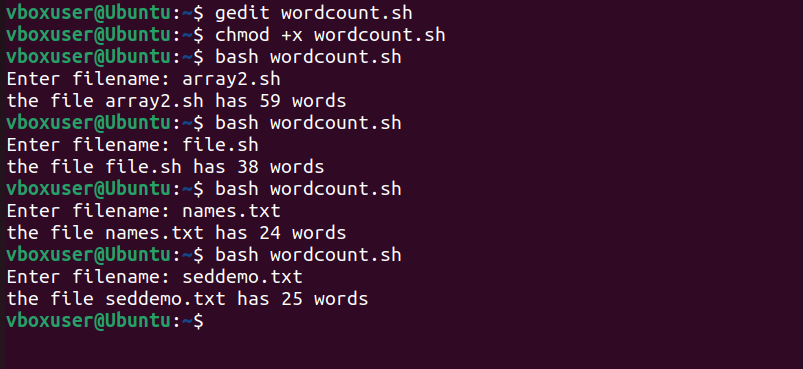
**ASSIGNMENT 2**

**Arithmetic Comparison**

**1) Write a program to demonstrate the use of not equal to operator.**

**Hint: -ne**

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**ASSIGNMENT 3**

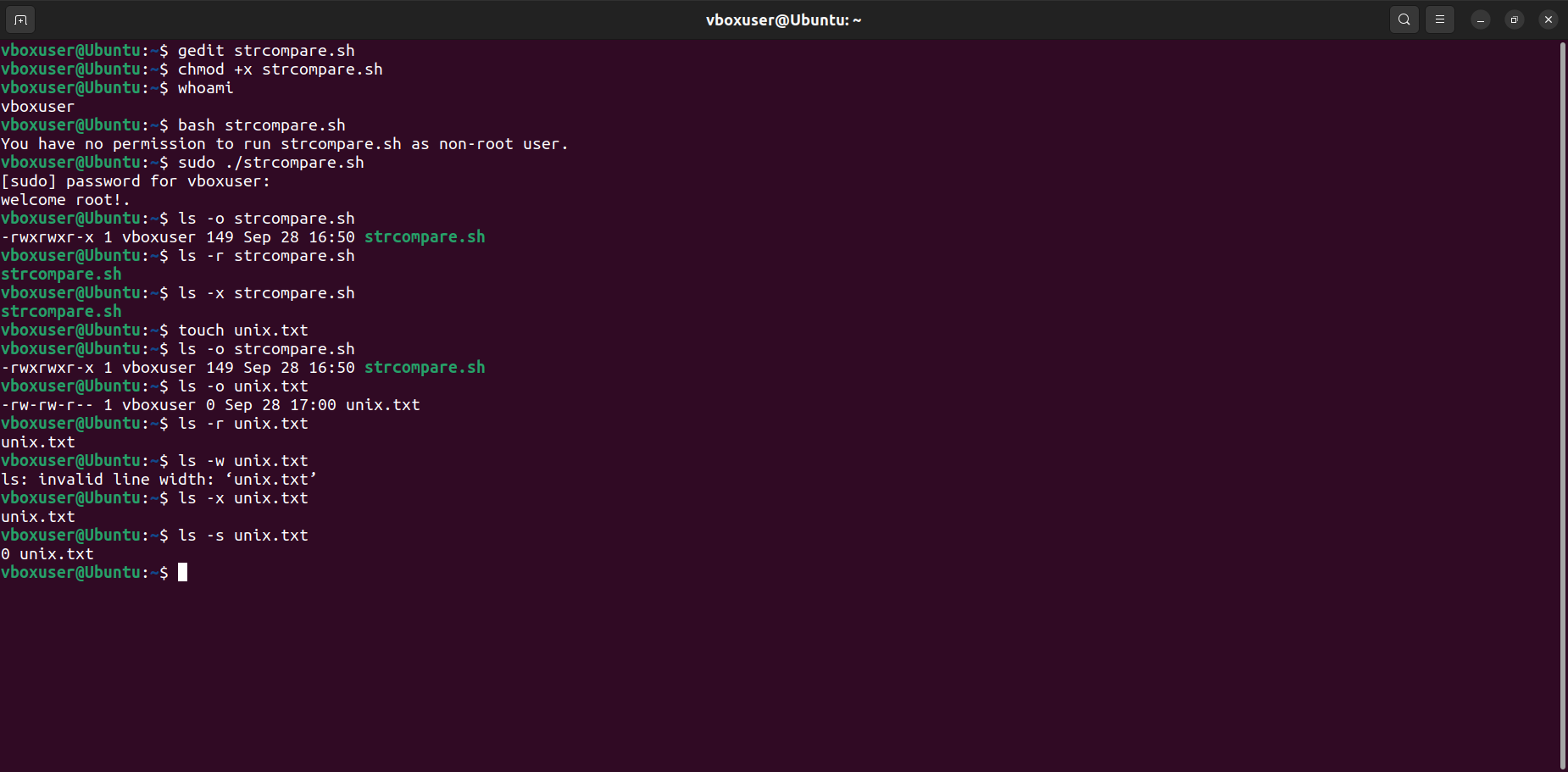
**String and File attributes**

**1) Explore some more attributes**

**-r**

**-x**

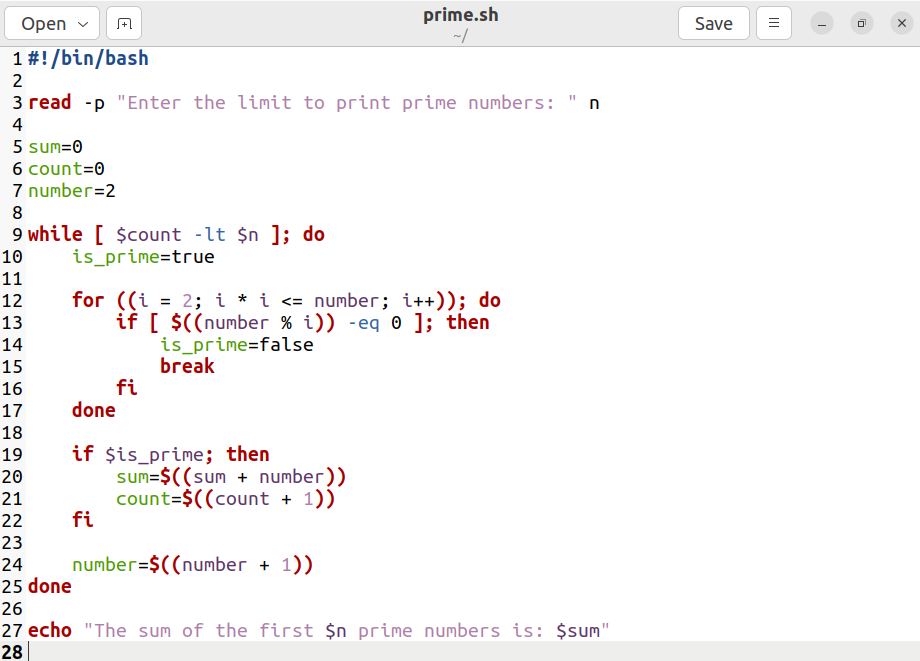
**-o**

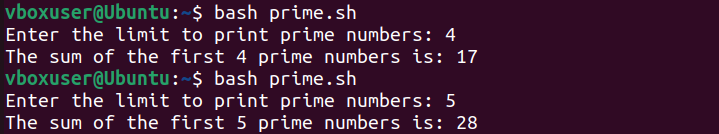


**ASSIGNMENT 4**

**Conditional Loops**

1. **Find the sum of first n prime numbers.**

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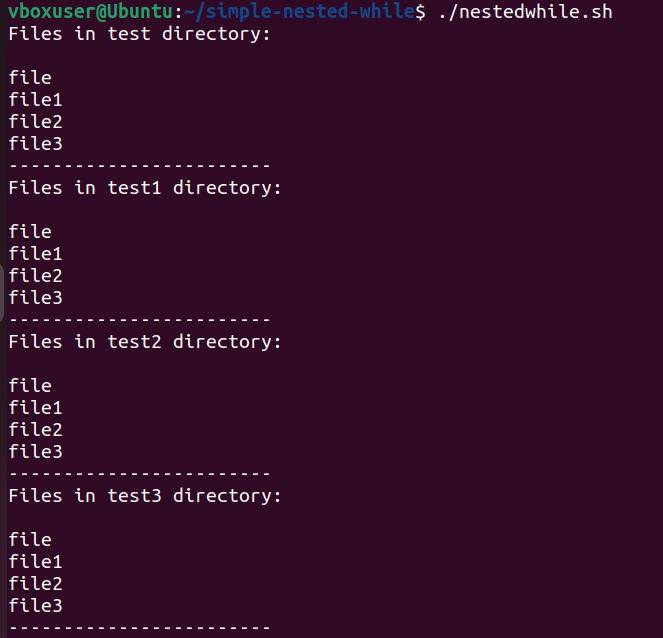
**ASSIGNMENT 5**

**More on Loops**

**1) Retype nested-for.sh bash script using nested while loop**

**2) Save your program with the name: nested-while.sh**

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**ASSIGNMENT 6**

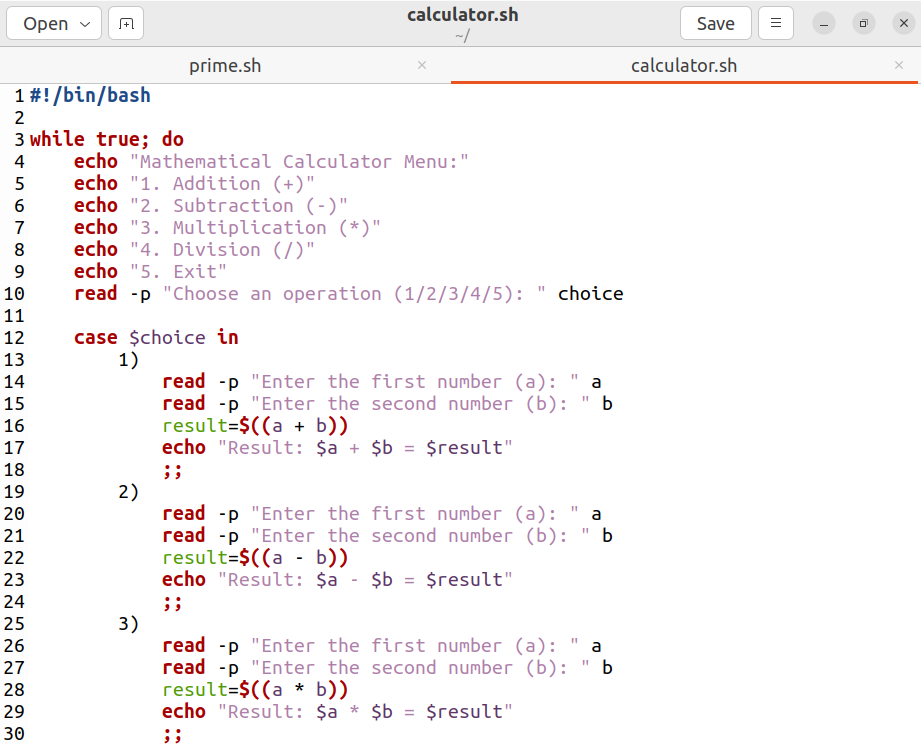
**1) Write a menu driven program for mathematical calculation**

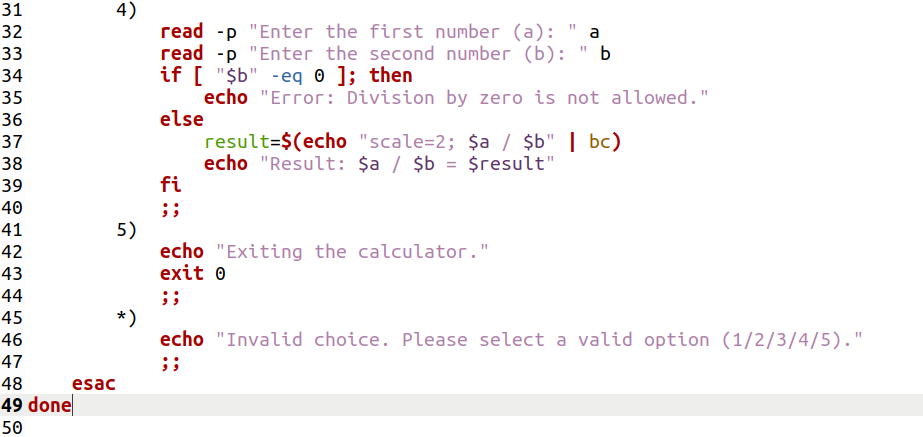
**a. It should take user inputs a and b**

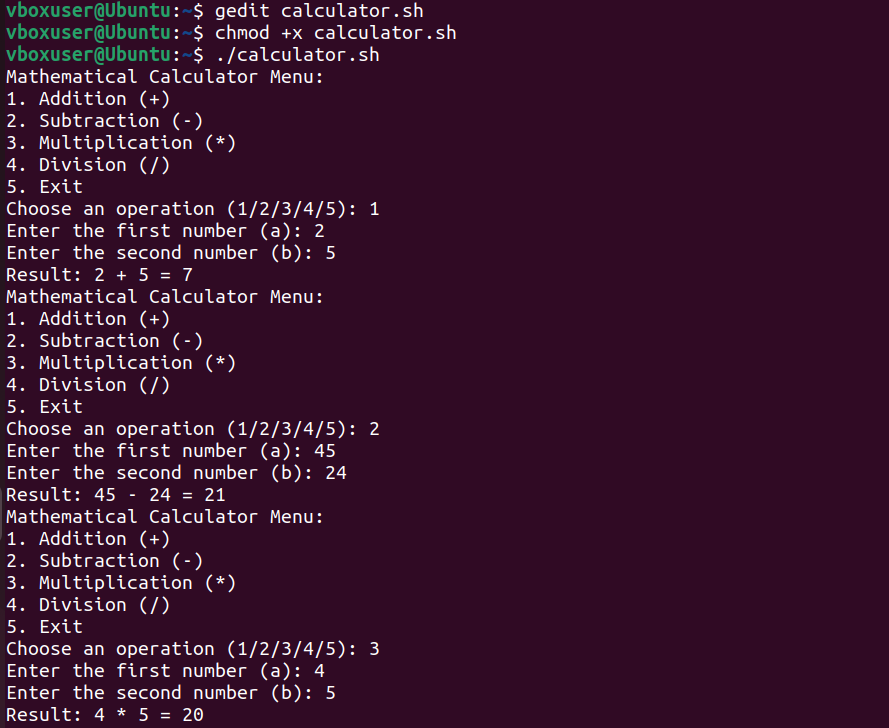
**b. It should ask for mathematical operator (+, -, / and \*).**

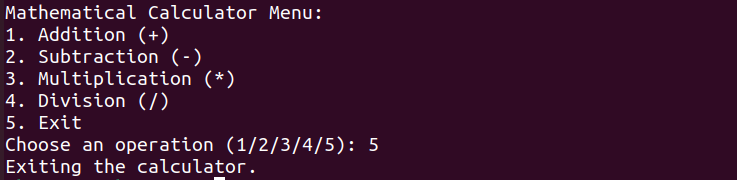
**c. Do the calculation**

**d. Print the output**

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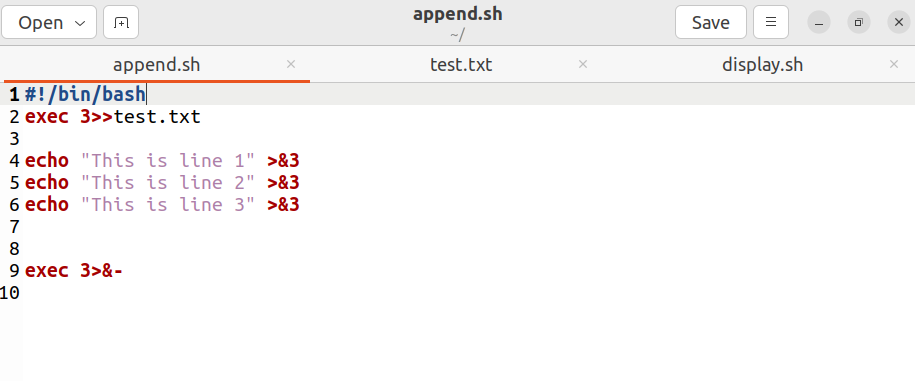
****

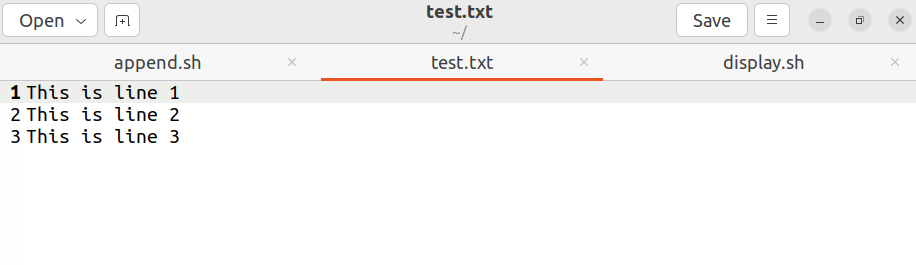
**ASSIGNMENT 7**

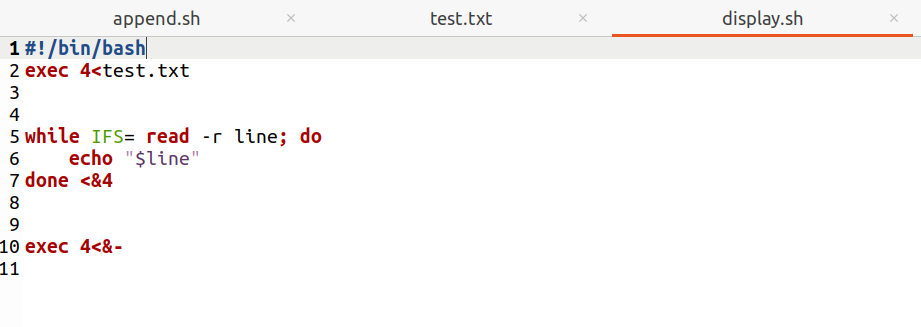
**Using File Descriptors**

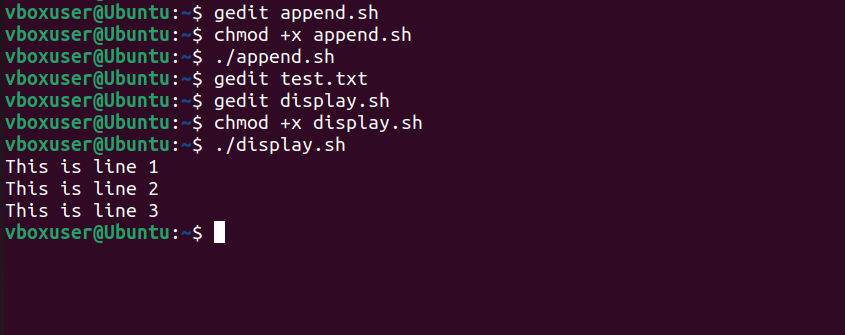
**1) Try to append few lines to a file test.txt using file descriptor.**

**2) Display the content of the file using file descriptor.**

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**ASSIGNMENT 8**

**Basics of functions**

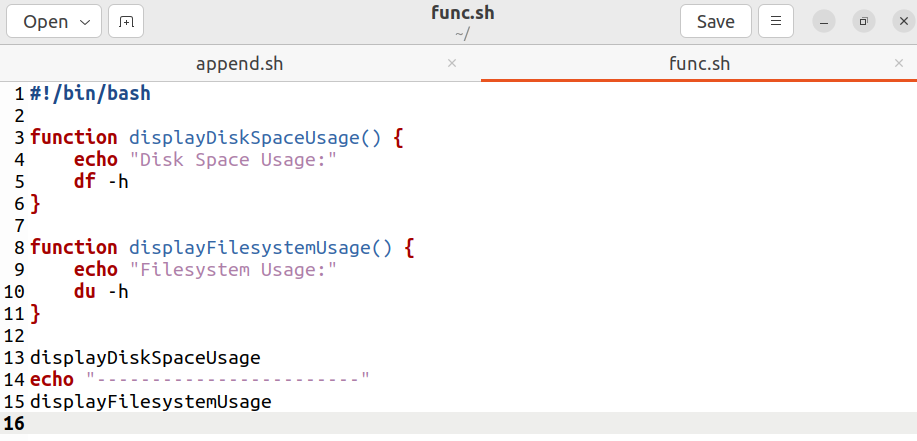
**1) Write a program with two functions:**

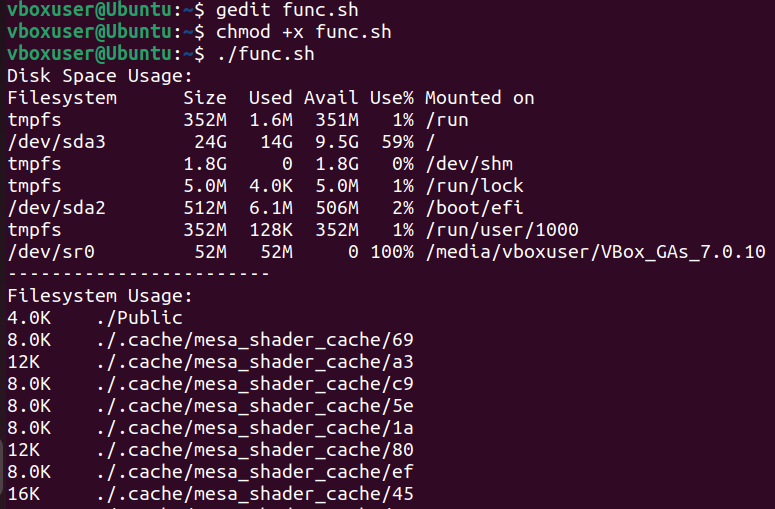
**a. The first function should display diskspace usage in human readable form.**

**(Hint: df -h)**

**b. The second function should display filesystem usage in human readable form.**

**(Hint: du -h)**

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**ASSIGNMENT 9**

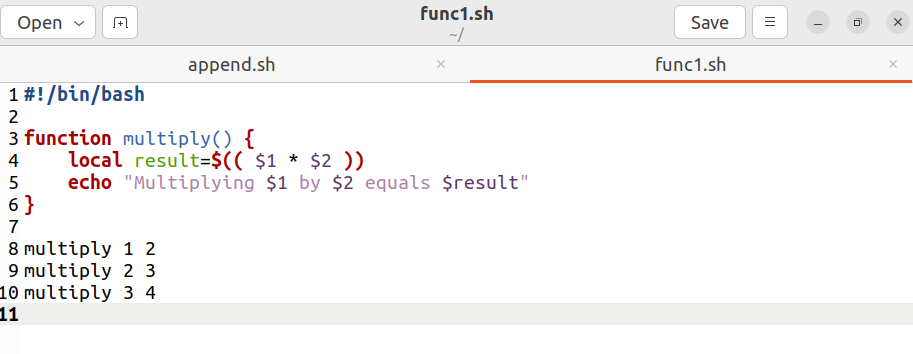
**More on functions**

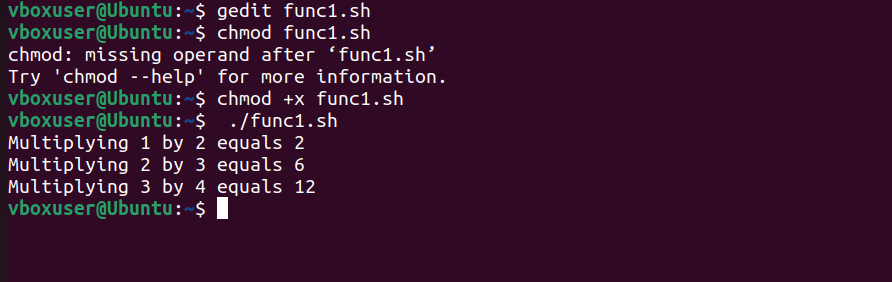
**1) Write a program,**

**a. where the function accepts two arguments.**

**b. The function should multiply the two arguments.**

**c. Make 3 function calls with arguments - (1, 2), (2, 3) and (3, 4)**

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**ASSIGNMENT 10**

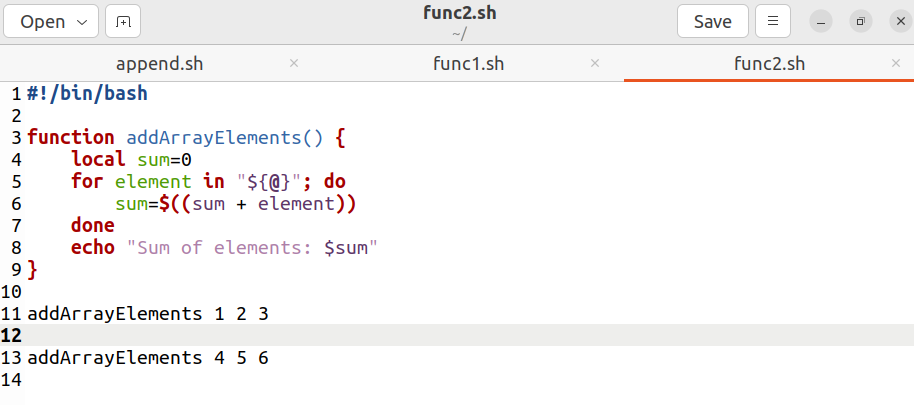
**Arrays and functions**

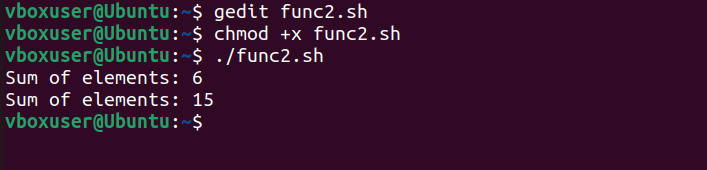
**1) Write a program,**

**a. Where a function adds all the elements in an array.**

**b. The function should display the sum of elements.**

**c. Make 2 function calls with array elements- (1, 2, 3) and (4, 5, 6).**

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