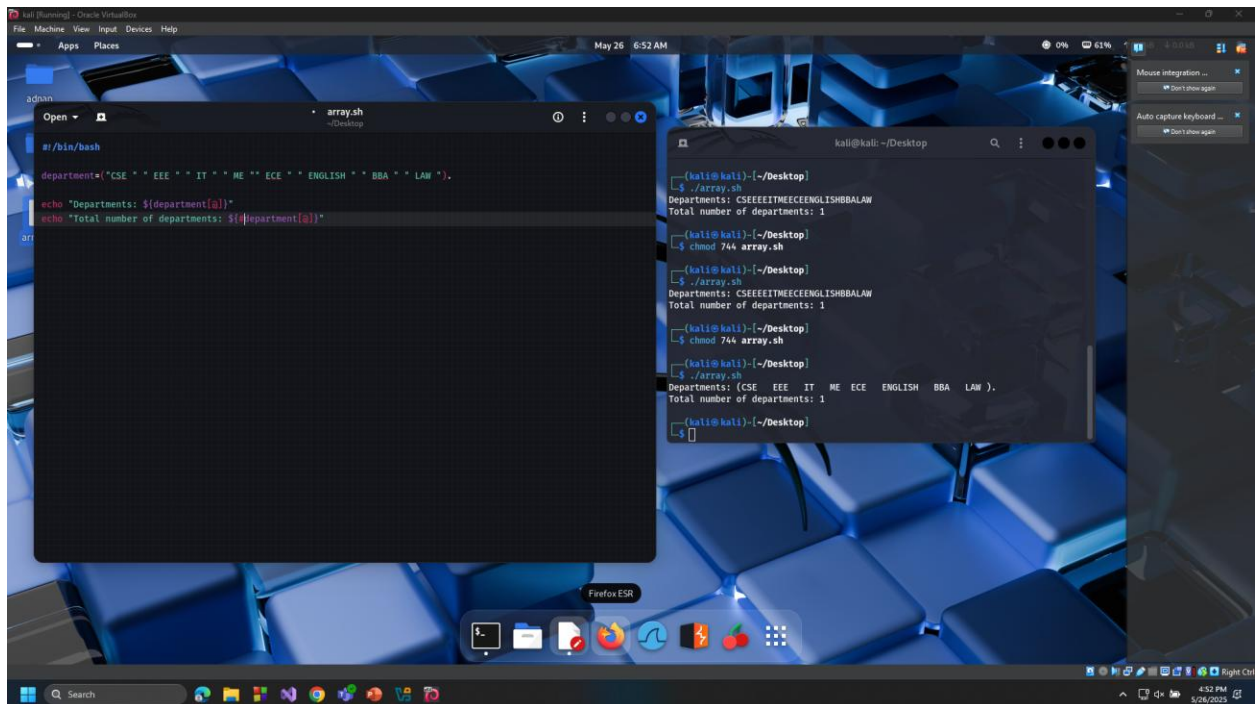


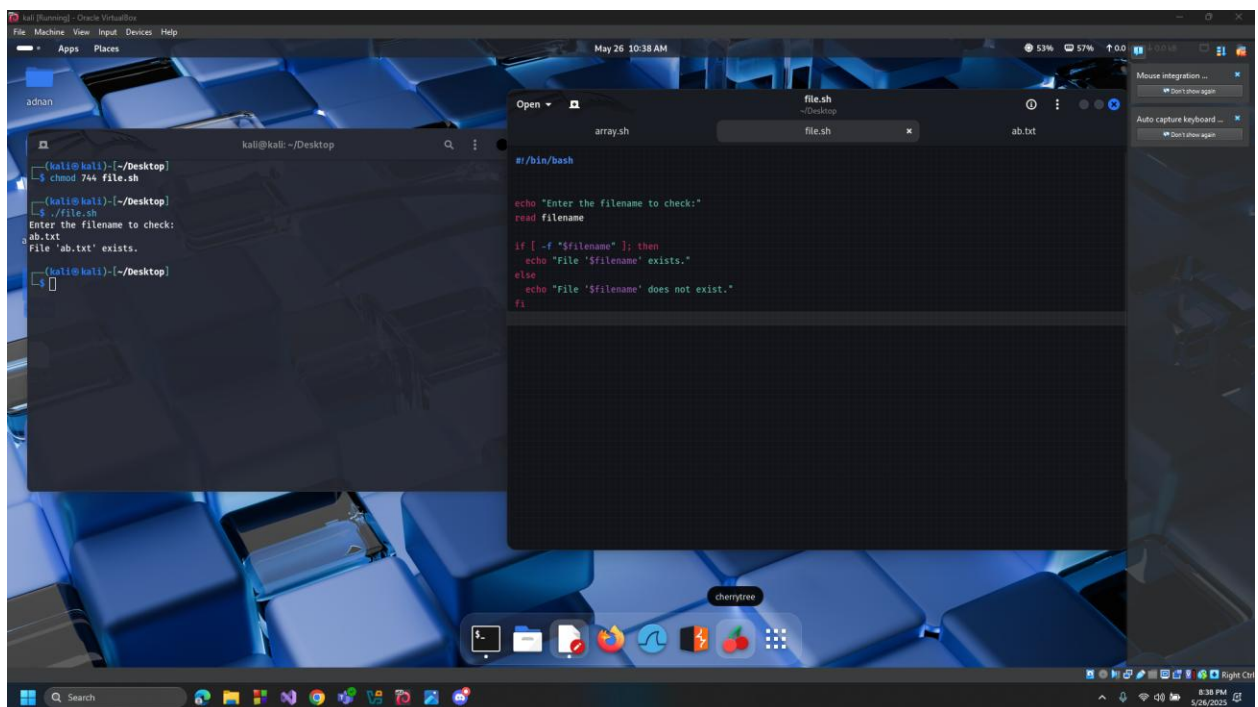
Ans 1:



```
kali (Running) - Oracle VM VirtualBox
File Machine View Input Devices Help
May 26 6:52 AM
0% 61%
adnan
array.sh
# /bin/bash
department="CSE " "EEE " "IT " "ME " "ECE " "ENGLISH " "BBA " "LAW " ).
echo "Departments: ${department[@]}"
echo "Total number of departments: ${#department[@]}"

kali@kali: ~/Desktop
$ ./array.sh
Departments: CSEEEEITMECEEENGLISHBBAALAW
Total number of departments: 1
$ chmod 744 array.sh
kali@kali: ~/Desktop
$ ./array.sh
Departments: CSEEEEITMECEEENGLISHBBAALAW
Total number of departments: 1
$ chmod 744 array.sh
kali@kali: ~/Desktop
$ ./array.sh
Departments: (CSE EEE IT ME ECE ENGLISH BBA LAW ).
Total number of departments: 1
kali@kali: ~/Desktop
```

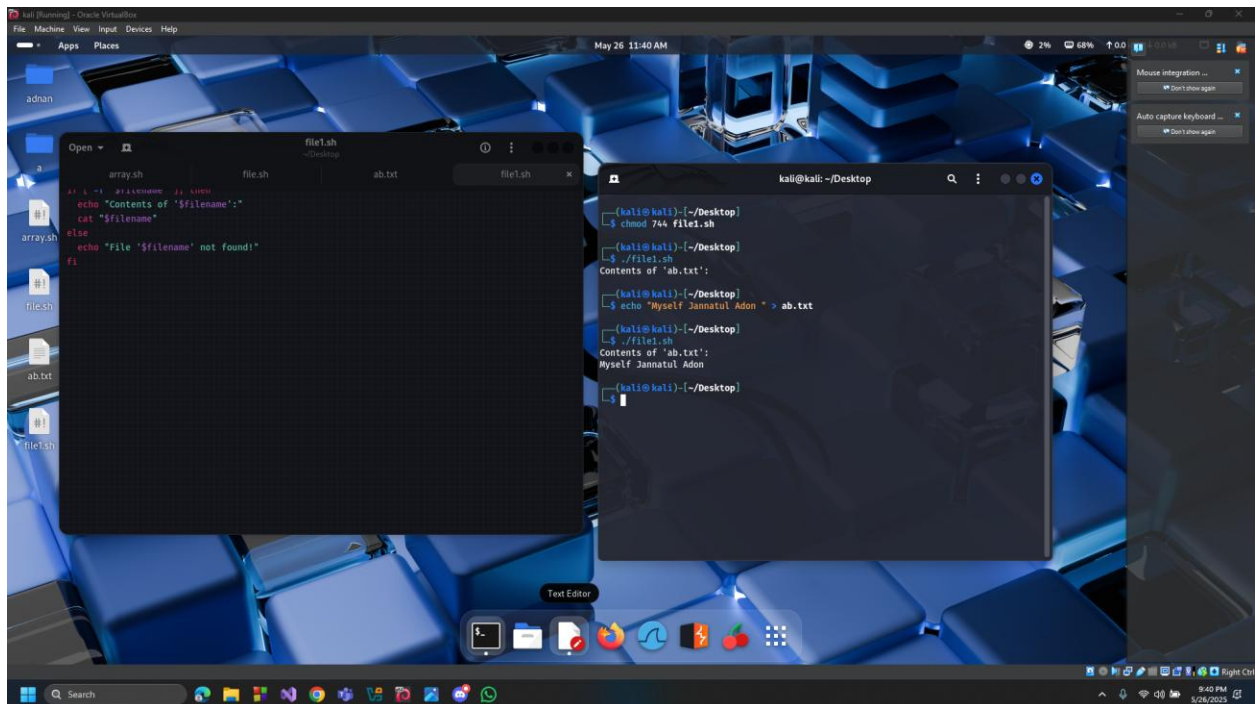
Ans 2:



```
kali (Running) - Oracle VM VirtualBox
File Machine View Input Devices Help
May 26 10:38 AM
53% 57%
adnan
file.sh
array.sh
file.sh
ab.txt
# /bin/bash
echo "Enter the filename to check:"
read filename
if [ -f "$filename" ]; then
echo "File '$filename' exists."
else
echo "File '$filename' does not exist."
fi

kali@kali: ~/Desktop
$ chmod 744 file.sh
kali@kali: ~/Desktop
$ ./file.sh
Enter the filename to check:
ab.txt
File 'ab.txt' exists.
kali@kali: ~/Desktop
```

Ans 3:



The screenshot displays a Kali Linux virtual machine environment. The desktop background is a blue keyboard. Two terminal windows are open. The left window, titled 'file1.sh', shows the following script:

```
#!/bin/bash
array=(array.sh file.sh ab.txt file1.sh)
echo "Contents of '$filename':"
cat "$filename"
else
echo "File '$filename' not found!"
fi
```

The right window, titled 'kali@kali: ~/Desktop', shows the execution of the script:

```
(kali@kali)~/Desktop
$ chmod 744 file1.sh
(kali@kali)~/Desktop
$ ./file1.sh
Contents of 'ab.txt':
(kali@kali)~/Desktop
$ echo "Myself Jannatul Adon" > ab.txt
(kali@kali)~/Desktop
$ ./file1.sh
Contents of 'ab.txt':
Myself Jannatul Adon
(kali@kali)~/Desktop
$
```

Ans 4:

