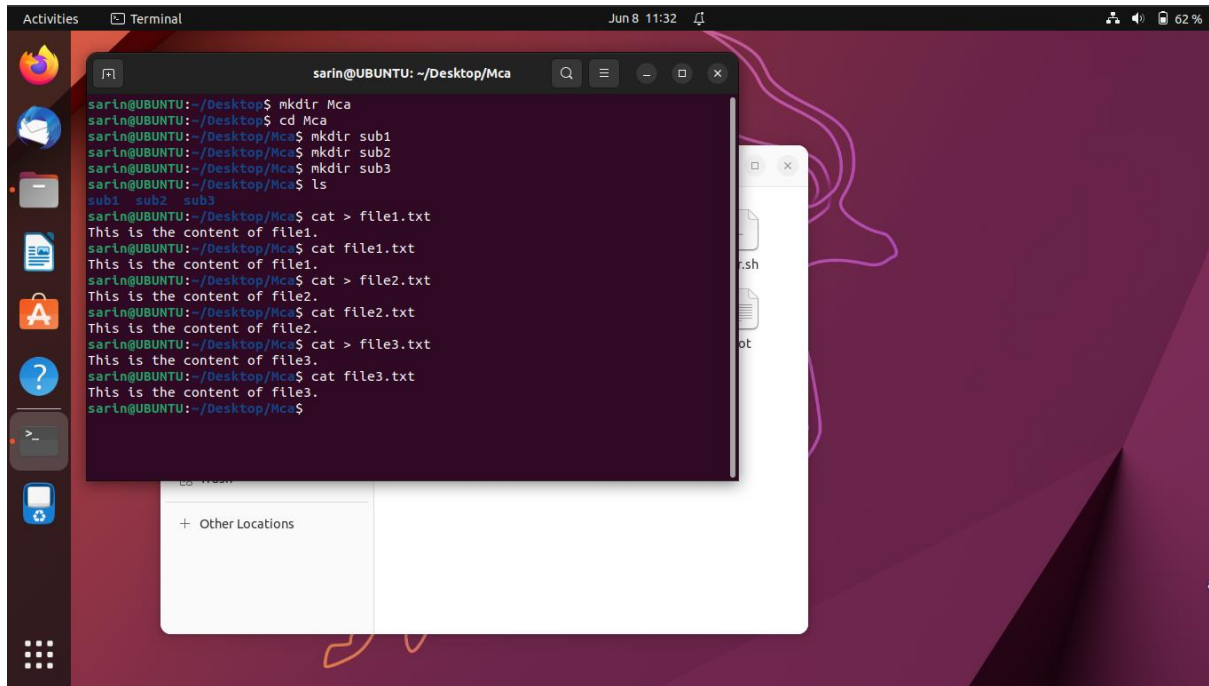


20INMCA332 – Open Source Platforms Lab Examination – Series 2

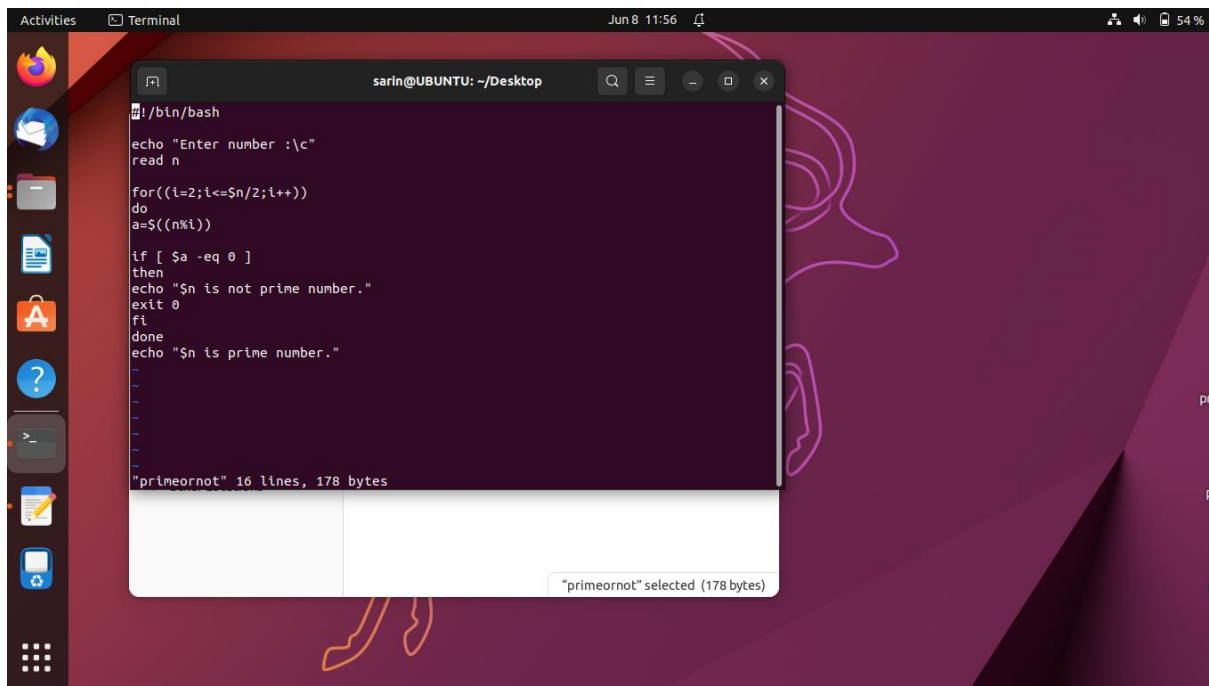
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INTMCA S6*

Question 1: Execute commands for creating a directory, create 3 subdirectories inside it, create 3 files with content. List all details separately. Execute a shell script to find whether a given number is prime or not. Upload both programs with output to GitHub and share to corresponding staff.



A terminal window titled 'sarin@UBUNTU: ~/Desktop/Mca' displays a series of commands and their outputs. The user creates a directory 'Mca', navigates into it, and then creates three subdirectories: 'sub1', 'sub2', and 'sub3'. A listing command shows these subdirectories. Then, the user creates three files: 'file1.txt', 'file2.txt', and 'file3.txt', each containing the text 'This is the content of file1.', 'This is the content of file2.', and 'This is the content of file3.' respectively. The terminal output is as follows:

```
sarin@UBUNTU: ~/Desktop/Mca
sarin@UBUNTU:~/Desktop$ mkdir Mca
sarin@UBUNTU:~/Desktop$ cd Mca
sarin@UBUNTU:~/Desktop/Mca$ mkdir sub1
sarin@UBUNTU:~/Desktop/Mca$ mkdir sub2
sarin@UBUNTU:~/Desktop/Mca$ mkdir sub3
sarin@UBUNTU:~/Desktop/Mca$ ls
sub1 sub2 sub3
sarin@UBUNTU:~/Desktop/Mca$ cat > file1.txt
This is the content of file1.
sarin@UBUNTU:~/Desktop/Mca$ cat file1.txt
This is the content of file1.
sarin@UBUNTU:~/Desktop/Mca$ cat > file2.txt
This is the content of file2.
sarin@UBUNTU:~/Desktop/Mca$ cat file2.txt
This is the content of file2.
sarin@UBUNTU:~/Desktop/Mca$ cat > file3.txt
This is the content of file3.
sarin@UBUNTU:~/Desktop/Mca$ cat file3.txt
This is the content of file3.
sarin@UBUNTU:~/Desktop/Mca$
```



A terminal window titled 'sarin@UBUNTU: ~/Desktop' shows a shell script being executed. The script prompts the user to enter a number and then checks if it is a prime number. The script uses a loop to test divisibility from 2 to $n/2$. If the number is not prime, it prints a message and exits with status 0. If the number is prime, it prints a message. The output of the script is shown below:

```
#!/bin/bash
echo "Enter number : \c"
read n

for((i=2;i<=n/2;i++))
do
a=$((n%i))

if [ $a -eq 0 ]
then
echo "$n is not prime number."
exit 0
fi
done
echo "$n is prime number."

"primeornot" 16 lines, 178 bytes
```

