

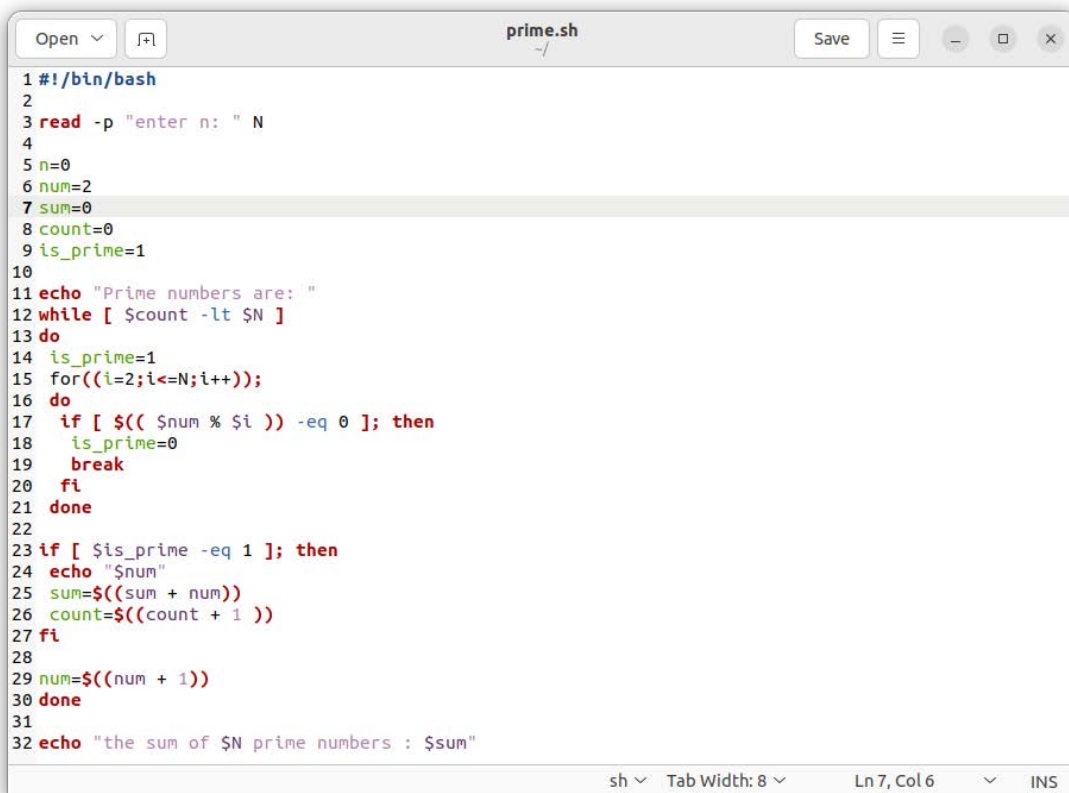
EmbedUR - Linux Training Program

Module - 4

Assignment – 25 (Conditional Loops)

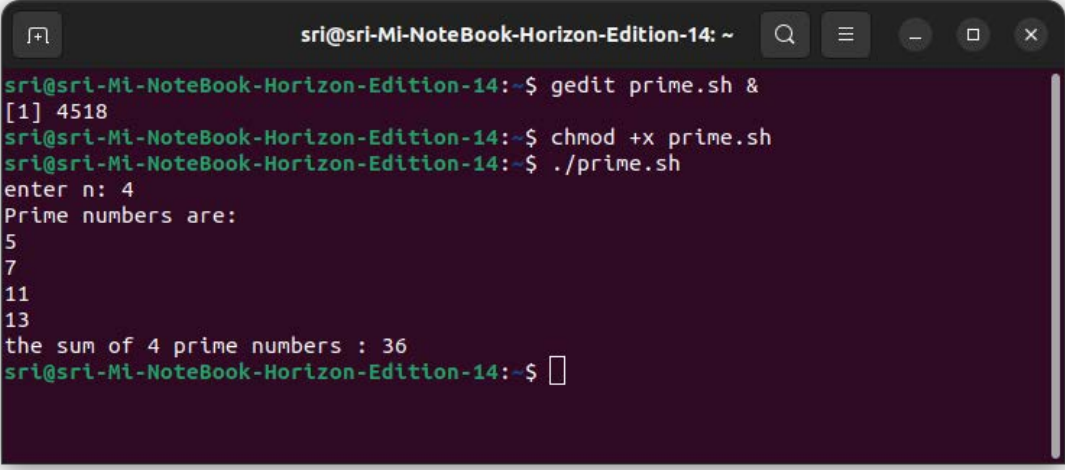
1) Find the sum of first n prime numbers.

File:



```
1 #!/bin/bash
2
3 read -p "enter n: " N
4
5 n=0
6 num=2
7 sum=0
8 count=0
9 is_prime=1
10
11 echo "Prime numbers are: "
12 while [ $count -lt $N ]
13 do
14     is_prime=1
15     for((i=2;i<=N;i++));
16     do
17         if [ $(( $num % $i )) -eq 0 ]; then
18             is_prime=0
19             break
20         fi
21     done
22
23     if [ $is_prime -eq 1 ]; then
24         echo "$num"
25         sum=$((sum + num))
26         count=$((count + 1 ))
27     fi
28     num=$((num + 1))
29 done
30
31
32 echo "the sum of $N prime numbers : $sum"
```

Output:

A terminal window titled 'sri@sri-Mi-NoteBook-Horizon-Edition-14: ~' with standard window controls. The terminal shows the following sequence of commands and output:

```
sri@sri-Mi-NoteBook-Horizon-Edition-14:~$ gedit prime.sh &
[1] 4518
sri@sri-Mi-NoteBook-Horizon-Edition-14:~$ chmod +x prime.sh
sri@sri-Mi-NoteBook-Horizon-Edition-14:~$ ./prime.sh
enter n: 4
Prime numbers are:
5
7
11
13
the sum of 4 prime numbers : 36
sri@sri-Mi-NoteBook-Horizon-Edition-14:~$
```