

Conditional Loops

- 1) Find the sum of first n prime numbers.

#commands in terminal

```
gedit prime.sh  
chmod +x prime.sh  
./prime.sh
```

#commands in bash script

```
#!/bin/bash  
n=10  
sum=0  
count=0  
num=2  
  
while [ $count -lt $n ];do  
    is_prime=1  
    for (( i=2;i<=num;i++));do  
        if [ $(num % i) -eq 0 ];then  
            is_prime=0  
            break  
        fi  
    done  
    if [ $is_prime -eq 1 ];  
    then  
        sum=$((sum+num))  
        count=$((count+1))  
    fi  
    num=$((num+1))  
done  
  
echo "Sum of the first $n prime numbers is : $sum"
```

OUTPUT:



```
Machine View  
Activities Text Editor  
Okt 8 09:03  
prime.sh  
Save  
1 #!/bin/bash  
2 n=10  
3 sum=0  
4 count=0  
5 num=2  
6  
7 while [ $count -lt $n ];do  
8     is_prime=1  
9     for (( i=2;i<=num;i++));do  
10         if [ $(num % i) -eq 0 ];then  
11             is_prime=0  
12             break  
13         fi  
14     done  
15     if [ $is_prime -eq 1 ];  
16     then  
17         sum=$((sum + num))  
18         count=$((count + 1))  
19     fi  
20  
21     num=$((num + 1))  
22 done  
23  
24 echo "Sum of the first $n prime numbers is : $sum"
```

Machine View

Activities Terminal Okt 8 09:00

onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ gedit prime.sh
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ chmod +x prime.sh
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ./prime.sh
Sun of the first 10 prime numbers is : 129
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```