

Conditional Loops

1) Find the sum of first n prime numbers.

```
1 #!/bin/bash
2 read -p "Enter number of prime numbers to print sum: " lim
3 num=2
4 ans=0
5 echo -n "The sum of first $lim prime numbers is : "
6 while [ $lim -gt 0 ]; do
7     isprime=1
8     for ((i=2;(i*i)<= $num;i++)); do
9         if [ $((($num % i)) == 0 )]; then
10             isprime=0
11             break
12         fi
13     done
14     if [ $isprime -eq 1 ]; then
15         ans=$((ans+$num))
16         lim=$((lim-1))
17     fi
18     num=$((num+1))
19 done
20 echo "$ans"
```

```
bgmadhavan@bgm-virtual-machine:~$ ./prime.sh
Enter number of prime numbers to print sum: 10
The sum of first 10 prime numbers is : 129
bgmadhavan@bgm-virtual-machine:~$ ./prime.sh
Enter number of prime numbers to print sum: 5
The sum of first 5 prime numbers is : 28
bgmadhavan@bgm-virtual-machine:~$
```