

Conditional Loops

1) Find the sum of first n prime numbers.

ANS:

For this question I created my own custom command – ‘checkprime’ which takes an argument number and returns 1 if it is prime or returns 0 if it is not prime.

```
GNU nano 6.2 /usr/bin/checkprime.sh
#!/usr/bin/env bash

n=$1
c=0
for ((i = 1 ; i <= n ; i++)); do
if [ $(expr $n % $i) -eq 0 ]; then
((++c));
fi
done
if [ $c -eq 2 ]; then
echo 1;
else
echo 0;
fi
```

[Directory '/usr/bin' is not writable]

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location
^X Exit	^R Read File	^_ Replace	^U Paste	^J Justify	^_ Go To Line

```
harsh@harsh:~$ checkprime 2
1
harsh@harsh:~$ checkprime 3
1
harsh@harsh:~$ checkprime 4
0
harsh@harsh:~$
```

```
GNU nano 6.2                                sumprime.sh
#!/usr/bin/env bash

sum=0
read -p "Enter the number:" n
for ((i = 0; i <= n; i++)); do
if [ $(checkprime $i) -eq 1 ]; then
sum=$((sum+$i));
fi
done
echo $sum;
```

```
harsh@harsh:~$ nano sumprime.sh
harsh@harsh:~$ ./sumprime.sh
Enter the number:5
10
harsh@harsh:~$ ./sumprime.sh
Enter the number:10
17
harsh@harsh:~$ █
```