

```
Mar 19 01:31
akash@akash-VirtualBox: ~
akash@akash-VirtualBox:~$ mpicc a3q1.c -o a3q1
akash@akash-VirtualBox:~$ mpirun -np 4 ./a3q1
DAXPY operation completed in 0.000063 seconds
akash@akash-VirtualBox:~$ mpicc a3q2.c -o a3q2
akash@akash-VirtualBox:~$ mpirun -np 4 ./a3q2
Approximated Value of Pi = 3.141592653589903
akash@akash-VirtualBox:~$ mpicc a3q3.c -o a3q3
akash@akash-VirtualBox:~$ mpirun -np 4 ./a3q3
Finding primes up to 100 using 4 processes
Found prime: 2
4 is not prime
Found prime: 5
6 is not prime
Found prime: 7
8 is not prime
9 is not prime
10 is not prime
Found prime: 11
12 is not prime
Found prime: 13
14 is not prime
15 is not prime
16 is not prime
Found prime: 17
18 is not prime
Found prime: 19
20 is not prime
21 is not prime
22 is not prime
Found prime: 23
24 is not prime
25 is not prime
26 is not prime
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akash@akash-VirtualBox: ~
Found prime: 23
74 is not prime
75 is not prime
76 is not prime
77 is not prime
78 is not prime
Found prime: 79
80 is not prime
81 is not prime
82 is not prime
Found prime: 83
84 is not prime
85 is not prime
86 is not prime
87 is not prime
88 is not prime
Found prime: 89
90 is not prime
91 is not prime
92 is not prime
93 is not prime
94 is not prime
95 is not prime
96 is not prime
Found prime: 97
98 is not prime
99 is not prime
100 is not prime
Found prime: 3
Found 25 primes: 2 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 3
akash@akash-VirtualBox:~$
```