

```
deepank@iitd-System-Product-Name: ~/Vanshaj/OOPD-Project-main
deepank@iitd-System-Product-Name:~/Vanshaj/OOPD-Project-main$ ./profile.sh

real    1m53.637s
user    0m1.240s
sys     1m6.148s

real    3m31.451s
user    0m2.521s
sys     1m30.715s

real    7m31.971s
user    0m4.064s
sys     2m13.694s
deepank@iitd-System-Product-Name:~/Vanshaj/OOPD-Project-main$
```

Result for profiling without thread implementation. The first time command output is for (1), the second is for (2), and the third is for (3).

```
deepank@iitd-System-Product-Name: ~/Vanshaj/OOPD-Project-multi-thread
deepank@iitd-System-Product-Name:~/Vanshaj/OOPD-Project-multi-thread$ ./profile.sh

real    3m39.429s
user    0m3.268s
sys     2m56.181s

real    4m8.437s
user    0m2.366s
sys     1m23.970s

real    3m32.918s
user    0m3.830s
sys     2m24.852s
deepank@iitd-System-Product-Name:~/Vanshaj/OOPD-Project-multi-thread$
```

Result for profiling with thread implementation. We can see that for the directory structure (1) and (2), the difference in time taken is not much since we are only working with files; however, we see that in the directory structure (3), there is an almost 50% reduction in time due to the nested directories where each thread can work.