

# Software Engineering

## Homework 4

Group 63

Wolf Developers

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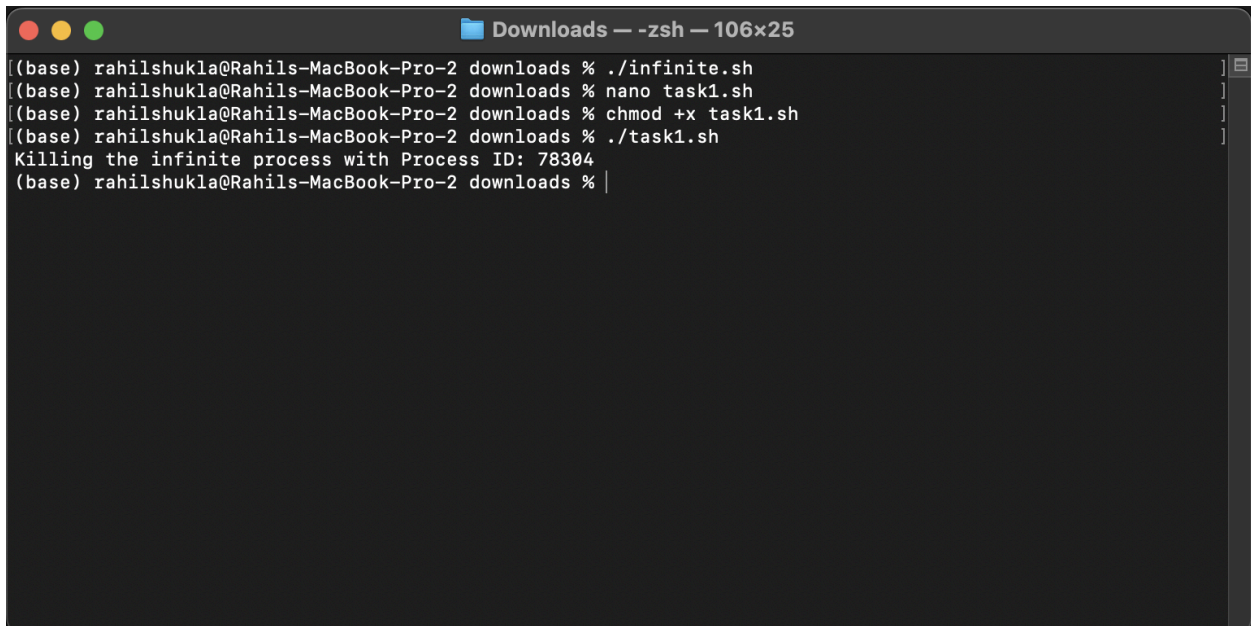
Karan Patel (kpatel49@ncsu.edu)

Date:- 10th October 2024

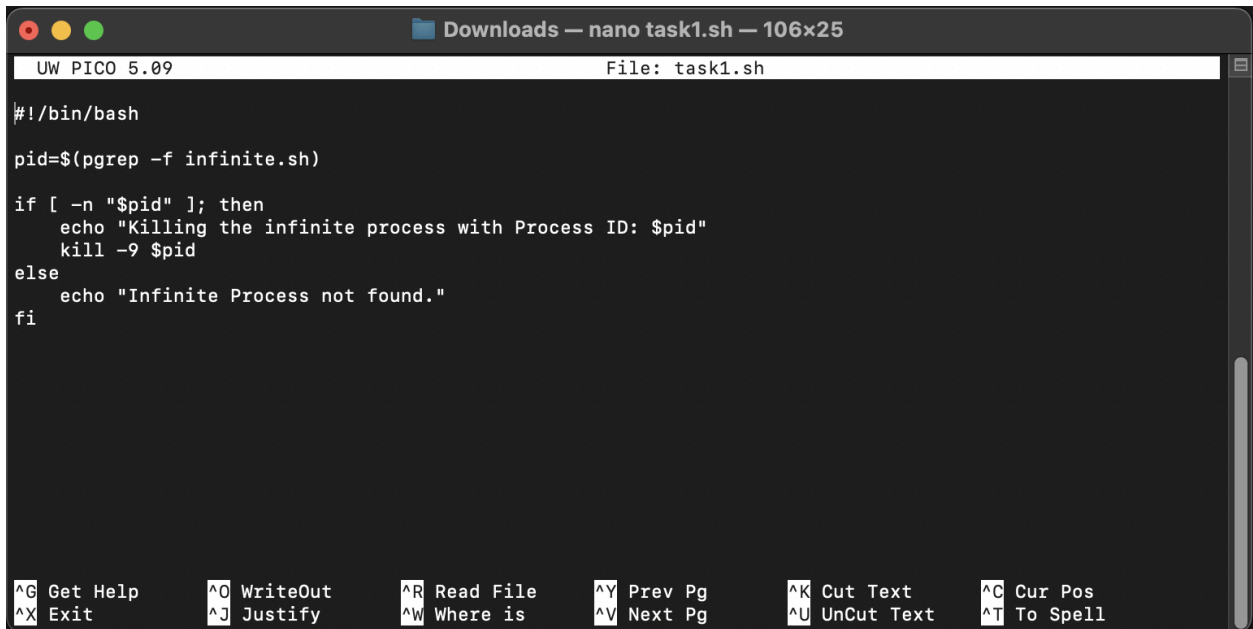
Github Link:- <https://github.com/Rahil312/HW4>

Snapshot of Tasks:-

### 1. Task 1



```
Downloads — -zsh — 106x25
(base) rahilshukla@Rahils-MacBook-Pro-2 downloads % ./infinite.sh
(base) rahilshukla@Rahils-MacBook-Pro-2 downloads % nano task1.sh
(base) rahilshukla@Rahils-MacBook-Pro-2 downloads % chmod +x task1.sh
(base) rahilshukla@Rahils-MacBook-Pro-2 downloads % ./task1.sh
Killing the infinite process with Process ID: 78304
(base) rahilshukla@Rahils-MacBook-Pro-2 downloads %
```



```
Downloads — nano task1.sh — 106x25
UW PICO 5.09 File: task1.sh

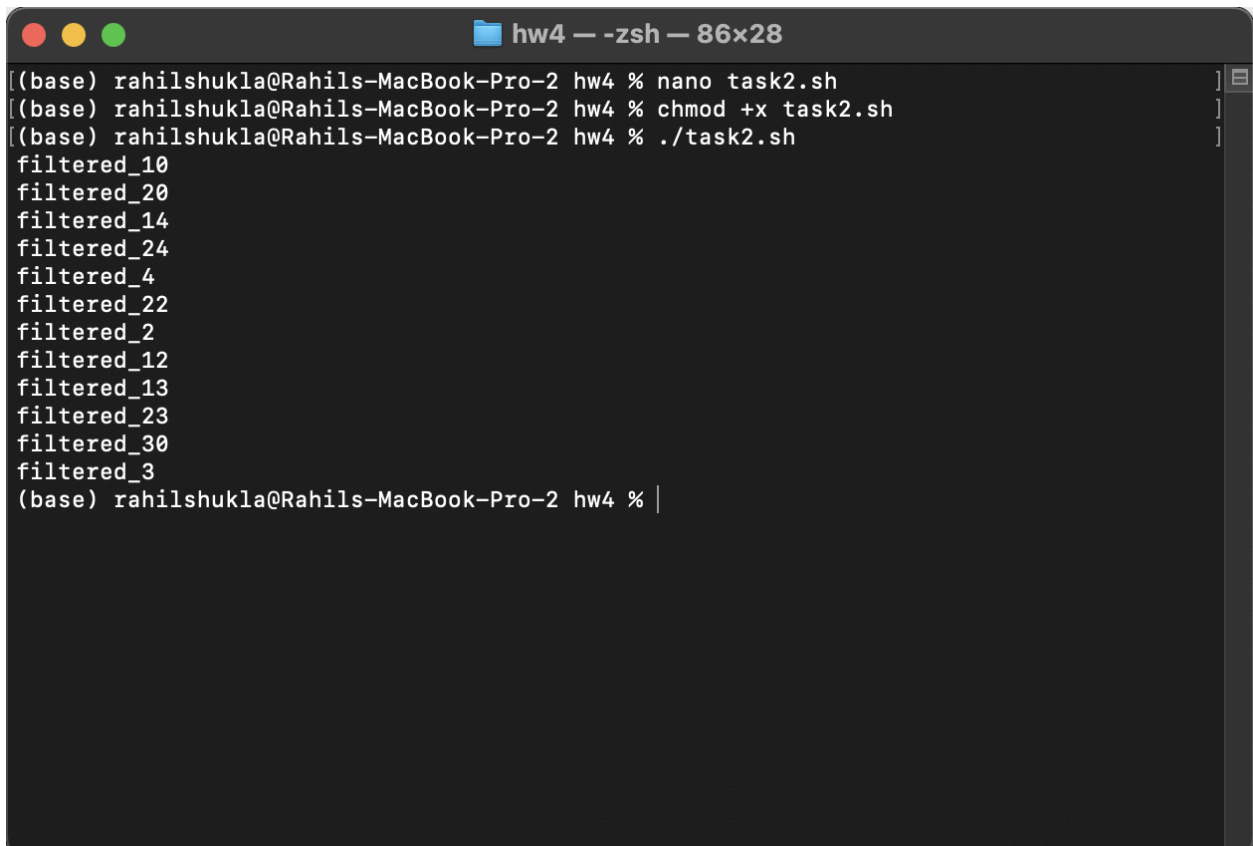
#!/bin/bash

pid=$(pgrep -f infinite.sh)

if [ -n "$pid" ]; then
    echo "Killing the infinite process with Process ID: $pid"
    kill -9 $pid
else
    echo "Infinite Process not found."
fi
```

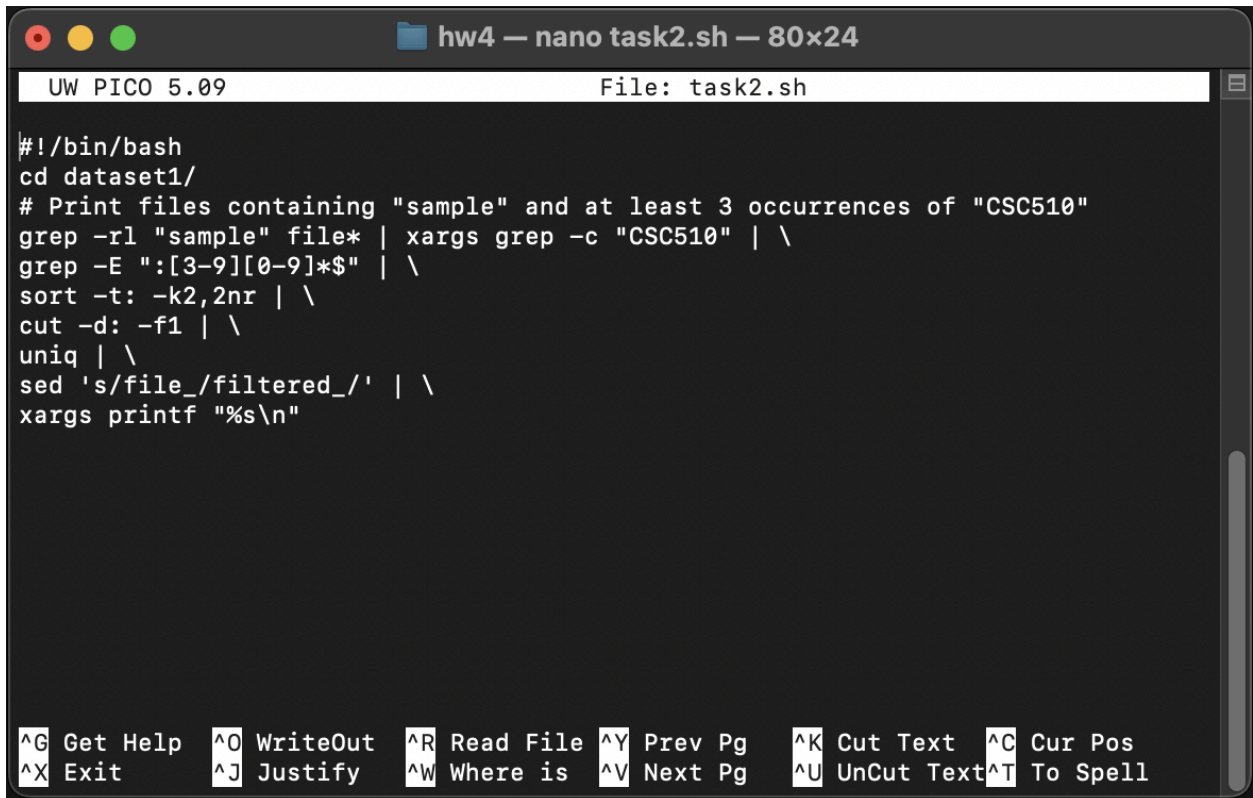
^G Get Help   ^O WriteOut   ^R Read File   ^Y Prev Pg   ^K Cut Text   ^C Cur Pos  
^X Exit   ^J Justify   ^W Where is   ^V Next Pg   ^U UnCut Text   ^T To Spell

## 2. Task 2



```
hw4 — -zsh — 86x28

[(base) rahilshukla@Rahils-MacBook-Pro-2 hw4 % nano task2.sh
[(base) rahilshukla@Rahils-MacBook-Pro-2 hw4 % chmod +x task2.sh
[(base) rahilshukla@Rahils-MacBook-Pro-2 hw4 % ./task2.sh
filtered_10
filtered_20
filtered_14
filtered_24
filtered_4
filtered_22
filtered_2
filtered_12
filtered_13
filtered_23
filtered_30
filtered_3
(base) rahilshukla@Rahils-MacBook-Pro-2 hw4 % |
```



```
UW PICO 5.09 File: task2.sh

#!/bin/bash
cd dataset1/
# Print files containing "sample" and at least 3 occurrences of "CSC510"
grep -rl "sample" file* | xargs grep -c "CSC510" | \
grep -E ":[3-9][0-9]*$" | \
sort -t: -k2,2nr | \
cut -d: -f1 | \
uniq | \
sed 's/file_/filtered_/' | \
xargs printf "%s\n"

^G Get Help   ^O WriteOut  ^R Read File ^Y Prev Pg   ^K Cut Text  ^C Cur Pos
^X Exit       ^J Justify   ^W Where is  ^V Next Pg   ^U UnCut Text ^T To Spell
```

### 3. Task 3

```
Karan@Karans-laptop MINGW64 ~/Desktop/SE_HW
$ chmod +x task3.sh

Karan@Karans-laptop MINGW64 ~/Desktop/SE_HW
$ ./task3.sh
16,1,2,"Hewlett, Mrs. (Mary D Kingcome) ",F,55,0,0,248706,16,,S
18,1,2,"Williams, Mr. Charles Eugene",M,,0,0,244373,13,,S
21,0,2,"Fynney, Mr. Joseph J",M,35,0,0,239865,26,,S
22,1,2,"Beesley, Mr. Lawrence",M,34,0,0,248698,13,D56,S
34,0,2,"Wheadon, Mr. Edward H",M,66,0,0,C.A. 24579,10.5,,S
42,0,2,"Turpin, Mrs. William John Robert (Dorothy Ann Wonnacott)",F,27,1,0,11668,21,,S
54,1,2,"Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)",F,29,1,0,2926,26,,S
57,1,2,"Rugg, Miss. Emily",F,21,0,0,C.A. 31026,10.5,,S
59,1,2,"West, Miss. Constance Mirium",F,5,1,2,C.A. 34651,27.75,,S
67,1,2,"Nye, Mrs. (Elizabeth Ramell)",F,29,0,0,C.A. 29395,10.5,F33,S
71,0,2,"Jenkin, Mr. Stephen Curnow",M,32,0,0,C.A. 33111,10.5,,S
73,0,2,"Hood, Mr. Ambrose Jr",M,21,0,0,S.O.C. 14879,73.5,,S
79,1,2,"Caldwell, Master. Alden Gates",M,0.83,0,2,248738,29,,S
85,1,2,"Ilett, Miss. Bertha",F,17,0,0,SO/C 14885,10.5,,S
99,1,2,"Doling, Mrs. John T (Ada Julia Bone)",F,34,0,1,231919,23,,S
100,0,2,"Kantor, Mr. Sinai",M,34,1,0,244367,26,,S
118,0,2,"Turpin, Mr. William John Robert",M,29,1,0,11668,21,,S
121,0,2,"Hickman, Mr. Stanley George",M,21,2,0,S.O.C. 14879,73.5,,S
124,1,2,"Webber, Miss. Susan",F,32.5,0,0,27267,13,E101,S
134,1,2,"Weisz, Mrs. Leopold (Mathilde Francoise Pede)",F,29,1,0,228414,26,,S
135,0,2,"Sobey, Mr. Samuel James Hayden",M,25,0,0,C.A. 29178,13,,S
145,0,2,"Andrew, Mr. Edgardo Samuel",M,18,0,0,231945,11.5,,S
146,0,2,"Nicholls, Mr. Joseph Charles",M,19,1,1,C.A. 33112,36.75,,S
149,0,2,"Navratil, Mr. Michel ("Louis M Hoffman")",M,36.5,0,2,230080,26,F2,S
150,0,2,"Byles, Rev. Thomas Roussel Davids",M,42,0,0,244310,13,,S
151,0,2,"Bateman, Rev. Robert James",M,51,0,0,S.O.P. 1166,12.525,,S
162,1,2,"Watt, Mrs. James (Elizabeth ""Bessie"" Inglis Milne)",F,40,0,0,C.A. 33595,15.75,,S
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```
724,0,2,"Hodges, Mr. Henry Price",M,50,0,0,250643,13,,S
727,1,2,"Renouf, Mrs. Peter Henry (Lillian Jefferys)",F,30,3,0,31027,21,,S
729,0,2,"Bryhl, Mr. Kurt Arnold Gottfrid",M,25,1,0,236853,26,,S
733,0,2,"Knight, Mr. Robert J",M,,0,0,239855,0,,S
734,0,2,"Berriman, Mr. William John",M,23,0,0,28425,13,,S
735,0,2,"Troupiansky, Mr. Moses Aaron",M,23,0,0,233639,13,,S
748,1,2,"Sinkkonen, Miss. Anna",F,30,0,0,250648,13,,S
751,1,2,"Wells, Miss. Joan",F,4,1,1,29103,23,,S
755,1,2,"Herman, Mrs. Samuel (Jane Laver)",F,48,1,2,220845,65,,S
756,1,2,"Hamalainen, Master. Viljo",M,0.67,1,1,250649,14.5,,S
758,0,2,"Bailey, Mr. Percy Andrew",M,18,0,0,29108,11.5,,S
773,0,2,"Mack, Mrs. (Mary)",F,57,0,0,S.O./P.P. 3,10.5,E77,S
775,1,2,"Hocking, Mrs. Elizabeth (Eliza Needs)",F,54,1,3,29105,23,,S
792,0,2,"Gaskell, Mr. Alfred",M,16,0,0,239865,26,,S
796,0,2,"Otter, Mr. Richard",M,39,0,0,28213,13,,S
801,0,2,"Ponesell, Mr. Martin",M,34,0,0,250647,13,,S
802,1,2,"Collyer, Mrs. Harvey (Charlotte Annie Tate)",F,31,1,1,C.A. 31921,26.25,,S
809,0,2,"Meyer, Mr. August",M,39,0,0,248723,13,,S
813,0,2,"Slemen, Mr. Richard James",M,35,0,0,28206,10.5,,S
832,1,2,"Richards, Master. George Sibley",M,0.83,1,1,29106,18.75,,S
842,0,2,"Mudd, Mr. Thomas Charles",M,16,0,0,S.O./P.P. 3,10.5,,S
849,0,2,"Harper, Rev. John",M,28,0,1,248727,33,,S
855,0,2,"Carter, Mrs. Ernest Courtenay (Lilian Hughes)",F,44,1,0,244252,26,,S
862,0,2,"Giles, Mr. Frederick Edward",M,21,1,0,28134,11.5,,S
865,0,2,"Gill, Mr. John William",M,24,0,0,233866,13,,S
866,1,2,"Bystrom, Mrs. (Karolina)",F,42,0,0,236852,13,,S
881,1,2,"Shelley, Mrs. William (Imanita Parrish Hall)",F,25,0,1,230433,26,,S
884,0,2,"Banfield, Mr. Frederick James",M,28,0,0,C.A./SOTON 34068,10.5,,S
887,0,2,"Montvila, Rev. Juozas",M,27,0,0,211536,13,,S
Average Age 30.3867
```

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Karan@Karans-laptop MINGW64 ~/Desktop/SE_HW
$
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