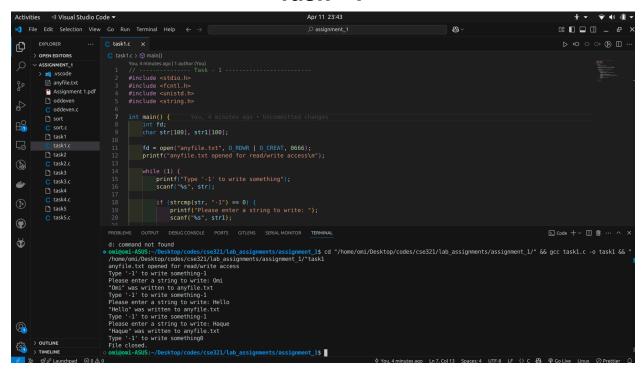
## Task - 1



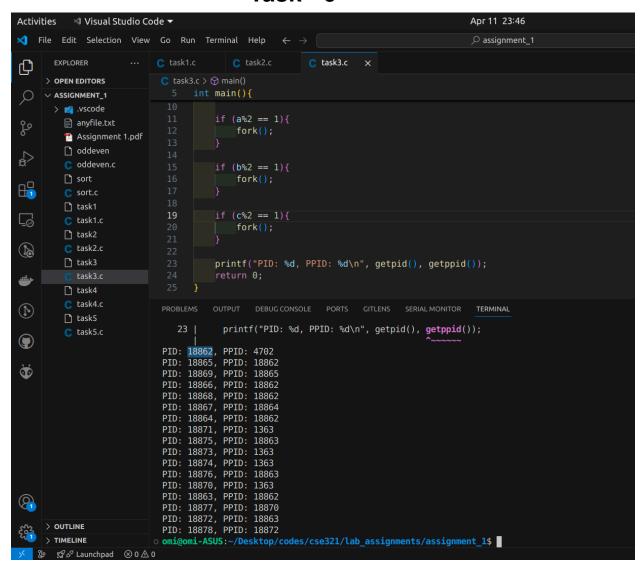
Task - 2

```
Activities ⋈ Visual Studio Code ▼
                                                                                                       Apr 11 23:45
igwedge File Edit Selection View Go Run Terminal Help igwedge 
ightarrow 
ightarrow
                                                                                                       C task2.c ×
                         ··· C task1.c
      > OPEN EDITORS

✓ ASSIGNMENT_1

        > 🗾 .vscode
          anyfile.txt
တို
          Assignment 1.pdf
          oddeven o
          c oddeven.c
                                       int main() {
  int pid, pid2, status;
          sort
                                            pid = fork();
          C sort.c
          task1
                                            if (pid < 0){
    printf("Fork Failed\n");</pre>
task2
task3
                                            if(pid == 0){
          c task3.c
          task4
(<u>1</u>)
          task5
          C task5.c
printf("I am grandchild \n");
4
                                PROBLEMS OUTPUT DEBUG CONSOLE PORTS GITLENS SERIAL MONITOR TERMINAL
                                task2.c:23:13: note: include '<stdlib.h>' or provide a declaration of 'exit' task2.c:27:13: warning: implicit declaration of function 'wait' [-Wimplicit-function-declaration]
                                                       wait(&status);
                                 task2.c:29:13: warning: incompatible implicit declaration of built-in function 'exit'
                                task2.c:29:13: note: include '<stdlib.h>' or provide a declaration of 'exit'
8
                                 I am grandchild
                                 I am child
      \rightarrow OUTLINE
                                 {\bf I} \ {\bf am} \ {\bf parent}
      > TIMELINE
                               omi@omi-ASUS:~/Desktop/codes/cse321/lab_assignments/assignment_1$ [
        Ø 6<sup>℃</sup> Launchpad
                       ⊗ 0 ∆ 0
```

Task - 3



More than 8 Process will be created, In My case 17 process here.

Task - 4

```
Activities ⋈ Visual Studio Code ▼
                                                                                        Apr 11 23:47
 🔀 File Edit Selection View Go Run Terminal Help 🧲 🔿
                                                                                        ··· C task1.c
                                         c task2.c
                                                      C task3.c
                                                                       C task4.c ×
       EXPLORER
 Ф
      > OPEN EDITORS
                           c task4.c > 🛇 main(int, char * [])
 > 🙀 .vscode
         anyfile.txt
 وړ
                                  Assignment 1.pdf
         oddeven o
                                      int pid, status;
         c oddeven.c
         sort sort
         C sort.c
         task1
 task2
         C task2.c
 task3
                                          printf("Let's start sorting in child process\n");
         C task3.c
         task4
 (<u>1</u>)
         task5
                              13 |
                                       pid = fork();
         C task5.c
 task4.c:18:9: warning: implicit declaration of function 'execv' [-Wimplicit-function-declaration]
                                           execv("./sort", array);
 4
                            task4.c:23:9: warning: implicit declaration of function 'wait' [-Wimplicit-function-declaration]
                                           wait(&status);
                            Let's start sorting in child process
                            The numbers entered: 5 3 2 6 1
Sorted: 6 5 3 2 1
                            Now lets sort the array in parent process sThe numbers entered: 5 3 2 6 1
                            The number 5, is odd
The number 3, is odd
 8
                            The number 2, is even
                            The number 6, is even
     > OUTLINE
                            The number 1, is odd
     > TIMELINE
                           o omi@omi-ASUS:~/Desktop/codes/cse321/lab_assignments/assignment_1$
    ్డు బ్లోన్లో Launchpad ⊗ 0 🛦 0
```

Task - 5

```
Activities ⋈ Visual Studio Code ▼
                                                                                                                   Apr 11 23:48
igwedge File Edit Selection View Go Run Terminal Help igwedge 
ightarrow igwedge
                                                                                                                   C task5.c ×
       > OPEN EDITORS

✓ ASSIGNMENT 1

         > 🙀 .vscode
           anyfile.txt
ရရှ
                                           #include <unistd.h>
           Assignment 1.pdf
           oddeven o
           C oddeven.c
                                                 int pid, pid2, status;
           sort [
H.
           C sort.c
                                                 pid = fork();
           task1
C task1.c
           task2
task3
                                                      printf("2. Child Process ID: %d\n", getpid());
focint i = 0. i < 2. i+\\frac{1}{2}</pre>
           task4
           C task4.c
                                    PROBLEMS OUTPUT DEBUG CONSOLE PORTS GITLENS SERIAL MONITOR TERMINAL
           task5
                                  omi@omi-ASUS:~/Desktop/codes/cse321/lab_assignments/assignment_1$ cd "/home/omi/Desktop/codes/cse321/lab
/home/omi/Desktop/codes/cse321/lab_assignments/assignment_1/"task5
task5.c: In function 'main':
task5.c:28:17: warning: implicit declaration of function 'exit' [-Wimplicit-function-declaration]
T
                                       28 I
                                                                  exit(0);
                                    task5.c:28:17: warning: incompatible implicit declaration of built-in function 'exit' task5.c:6:1: note: include '<stdlib.h>' or provide a declaration of 'exit'
                                       5 | #include <sys/types.h>
+++ |+#include <stdlib.h>
                                    task5.c:31:17: warning: implicit declaration of function 'wait' [-Wimplicit-function-declaration]
                                                                   wait(NULL);

    Parent Process ID: 19027
    Child Process ID: 19028

(2)
                                    3. Grandchiled Process ID: 19029
                                  4. Grandchiled Process ID: 19030
5. Grandchiled Process ID: 19031
omi@omi-ASUS:~/Desktop/codes/cse321/lab_assignments/assignment_1$ []
      > OUTLINE
      > TIMELINE
   ్లు ఆ ఆ Launchpad ⊗ 0 🛦 0
```