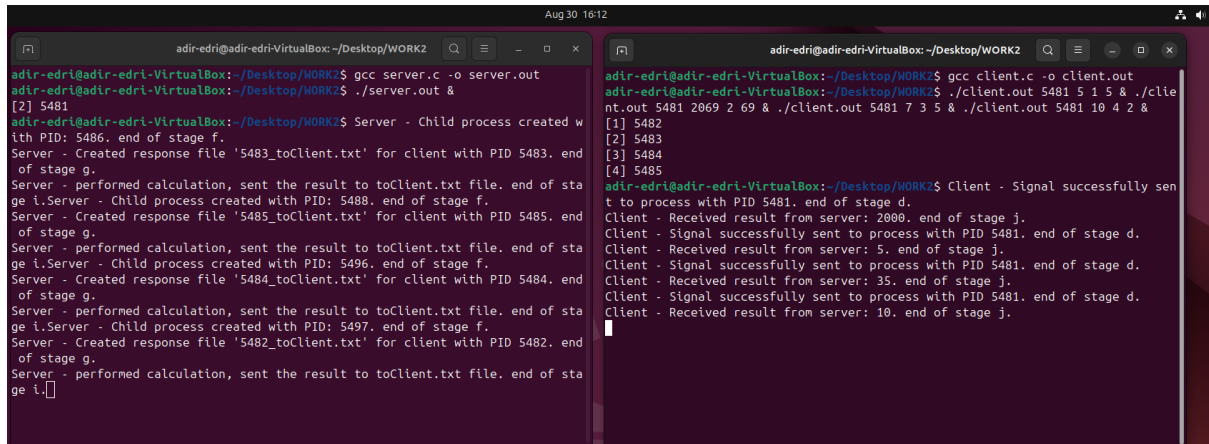


מטלה 2 במערכות הפעלה – תהליכים וסינגלים

עבודה של אדיר אדרי 206991762 :

הרצת הטרמינלים של השרת והלקוח במקביל :



```
adiri-edri@adiri-edri-VirtualBox: ~/Desktop/WORK2
adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ gcc server.c -o server.out
adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ ./server.out &
[2] 5481
adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ Server - Child process created with PID: 5486. end of stage f.
Server - Created response file '5483_toClient.txt' for client with PID 5483. end of stage g.
Server - performed calculation, sent the result to toClient.txt file. end of stage i. Server - Child process created with PID: 5488. end of stage f.
Server - Created response file '5485_toClient.txt' for client with PID 5485. end of stage g.
Server - performed calculation, sent the result to toClient.txt file. end of stage i. Server - Child process created with PID: 5496. end of stage f.
Server - Created response file '5484_toClient.txt' for client with PID 5484. end of stage g.
Server - performed calculation, sent the result to toClient.txt file. end of stage i. Server - Child process created with PID: 5497. end of stage f.
Server - Created response file '5482_toClient.txt' for client with PID 5482. end of stage g.
Server - performed calculation, sent the result to toClient.txt file. end of stage i.

adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ gcc client.c -o client.out
adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ ./client.out 5481 5 1 5 & ./client.out 5481 2069 2 69 & ./client.out 5481 7 3 5 & ./client.out 5481 10 4 2 &
[1] 5482
[2] 5483
[3] 5484
[4] 5485
adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ Client - Signal successfully sent to process with PID 5481. end of stage d.
Client - Received result from server: 2000. end of stage j.
Client - Signal successfully sent to process with PID 5481. end of stage d.
Client - Received result from server: 5. end of stage j.
Client - Signal successfully sent to process with PID 5481. end of stage d.
Client - Received result from server: 35. end of stage j.
Client - Signal successfully sent to process with PID 5481. end of stage d.
Client - Received result from server: 10. end of stage j.
```

שלי פתרון:

שלב ראשון – קימפול קובץ ה server.c והפעלתו, וקבלת PID :

```
adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ gcc server.c -o server.out
adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ ./server.out &
[2] 5481
```

שלב שני – קימפול קובץ ה client.c והפעלתו +

שימוש ב4 ספרות ראשונות של ת.ז באחת מפעולות החישוב :

```
adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ gcc client.c -o client.out
adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ ./client.out 5481 5 1 5 & ./client.out 5481 2069 2 69 & ./client.out 5481 7 3 5 & ./client.out 5481 10 4 2 &
[1] 5482
[2] 5483
[3] 5484
[4] 5485
```

קבלת פלט טרמינל הלקוח :

```
adiri-edri@adiri-edri-VirtualBox:~/Desktop/WORK2$ Client - Signal successfully sent to process with PID 5481. end of stage d.
Client - Received result from server: 2000. end of stage j.
Client - Signal successfully sent to process with PID 5481. end of stage d.
Client - Received result from server: 5. end of stage j.
Client - Signal successfully sent to process with PID 5481. end of stage d.
Client - Received result from server: 35. end of stage j.
Client - Signal successfully sent to process with PID 5481. end of stage d.
Client - Received result from server: 10. end of stage j.
```

קבלת פלט טרמינל הסרבר :

```
adir-edri@adir-edri-VirtualBox:~/Desktop/WORK2$ Server - Child process created with PID: 5486. end of stage f.  
Server - Created response file '5483_toClient.txt' for client with PID 5483. end of stage g.  
Server - performed calculation, sent the result to toClient.txt file. end of stage i.  
Server - Child process created with PID: 5488. end of stage f.  
Server - Created response file '5485_toClient.txt' for client with PID 5485. end of stage g.  
Server - performed calculation, sent the result to toClient.txt file. end of stage i.  
Server - Child process created with PID: 5496. end of stage f.  
Server - Created response file '5484_toClient.txt' for client with PID 5484. end of stage g.  
Server - performed calculation, sent the result to toClient.txt file. end of stage i.  
Server - Child process created with PID: 5497. end of stage f.  
Server - Created response file '5482_toClient.txt' for client with PID 5482. end of stage g.  
Server - performed calculation, sent the result to toClient.txt file. end of stage i.
```