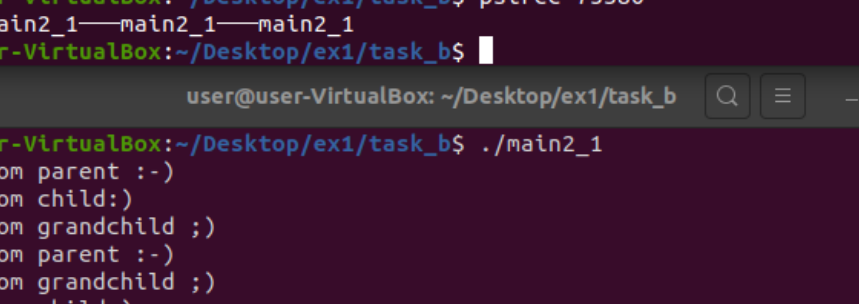


שאלה 1_2:



The screenshot shows a terminal window with a dark background. The prompt is `user@user-VirtualBox: ~/Desktop/ex1/task_b`. The first command executed is `ps -ef | grep 75380`, which shows the process tree for PID 75380. The output is:

```
bash      main2_1      main2_1      main2_1
```

The second command executed is `./main2_1`. The output is a series of "hello from" messages, alternating between "parent" and "child" processes, with "grandchild" processes appearing between "parent" and "child" messages. The output is:

```
hello from parent :-)
hello from child:)
hello from grandchild ;)
hello from parent :-)
hello from grandchild ;)
hello from child:)
hello from parent :-)
hello from grandchild ;)
hello from child:)
hello from child:)
hello from parent :-)
hello from grandchild ;)
hello from parent :-)
hello from grandchild ;)
hello from child:)
hello from child:)
hello from parent :-)
hello from grandchild ;)
hello from parent :-)
hello from child:)
hello from grandchild ;)
hello from parent :-)
hello from child:)
hello from grandchild ;)
```

אפשר לראות שיצאו שלושה תהליכים שווים

```
user@user-VirtualBox: ~/Desktop/ex1/task_b$ ./main2_2  
clone result 1 =76332  
Hello from parent  
Hello from child 2  
clone result 2 =76333  
Hello from child 1  
Hello from parent  
Hello from child 2  
Hello from child 1  
Hello from child 1  
Hello from parent  
Hello from child 2  
Hello from parent  
Hello from child 2  
Hello from child 1  
Hello from parent  
Hello from child 2  
Hello from child 1  
Hello from parent  
Hello from child 2  
Hello from child 1  
Hello from parent  
Hello from child 1  
Hello from parent  
Hello from child 2  
Hello from child 1  
Hello from parent  
Hello from child 2  
Hello from child 2  
Hello from child 1  
Hello from parent  
Hello from child 2
```

שאלה 2_3: יצרנו demon ורשמנו לsyslog:

```

user@user-VirtualBox: ~/Desktop/ex1/task_b
user@user-VirtualBox:~/Desktop/ex1/task_b$ ./main2_3
daemon PID 77299
start daemon
user@user-VirtualBox:~/Desktop/ex1/task_b$ grep -a myAnsDeamon /var/log/syslog
Mar 30 13:24:09 user-VirtualBox myAnsDeamon[77299]: daemon started!
Mar 30 13:24:13 user-VirtualBox myAnsDeamon[77299]: daemon waiting!
Mar 30 13:24:17 user-VirtualBox myAnsDeamon[77299]: daemon finisied!
user@user-VirtualBox:~/Desktop/ex1/task_b$

```

שאלה 2_4:

הרצנו כפי שאפשר לראות:

```

user@user-VirtualBox:~/Desktop/ex1/task_b$ ./main2_4
1: 3566
2: 3567
3: 3568
created all three proccses
clone result 1 =3569
Hello from parent
daemon PID 3570
start daemon
clone result 2 =3571
Hello from child 1
Hello from child 2
hello from parent :-)
hello from child:)
hello from grandchild ;)
hello from parent :-)
hello from grandchild ;)
hello from child:)
hello from child:)
hello from grandchild ;)
hello from parent :-)
hello from child:)
hello from grandchild ;)
hello from parent :-)
hello from parent :-)
hello from grandchild ;)
hello from child:)
hello from child:)
hello from grandchild ;)
hello from parent :-)
hello from child:)
hello from parent :-)
hello from grandchild ;)
hello from parent :-)
hello from child:)
hello from grandchild ;)
hello from parent :-)
hello from child:)
hello from grandchild ;)

```

ואכן כפי שאפשר לראות בעץ:

```

user@user-VirtualBox:~/Desktop/ex1/task_b$ pstree 3502
bash--main2_4--main2_1--main2_1--main2_1
                |
                +--3*[main2_2]
                |
                +--main2_3

```

(ב daemon לא רואים את תהליך הdaemon שהופעל- כי הוא daemon)