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WRY-UMP-PhD - Success jogging using parallel port on HP Notebook using docking station

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COMPILATION AND EXECUTION

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wruslan@HPEIBk8570w-rtwork1:~/WOM-WRY-UMP-PhD/2023-05-18-parallel-port/jogging-C-code$ gcc -o keyboard-jogging-code.c
wruslan@HPEIBk8570w-rtwork1:~/WOM-WRY-UMP-PhD/2023-05-18-parallel-port/jogging-C-code$ sudo ./keyboard-jogging-code.c
2023-05-19 07:04:25.000331073 Bismillah. Start CNC keyboard jogging.
2023-05-19 07:04:25.000331123 Note: You must run with root permission.
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2023-05-19 07:04:25.000331143 SUCCESS: Set max priority level io_prio_lvl value = 0
2023-05-19 07:04:25.000331178 SUCCESS: Set port i/o permissions io_perm value = 0
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2023-05-19 07:04:25.000375664 EXECUTING open_parallel_port(void).
2023-05-19 07:04:25.000375695 SUCCESS: Open PARPORT_DEVICE (/dev/lp0).
2023-05-19 07:04:25.000375706 SUCCESS: Display file descriptor parport_fd = 3
2023-05-19 07:04:25.000375718 SUCCESS: Display PARPORT_IRQ = 5
2023-05-19 07:04:25.000375728 SUCCESS: Display BASE_ADDRESS = 0x378
2023-05-19 07:04:25.000375739 SUCCESS: Display CPUMAP = 0x08
2023-05-19 07:04:25.000375750 SUCCESS: Display PERIOD = 500000 (ns)
2023-05-19 07:04:25.000375761 SUCCESS: Display TICK_TIME = 1000000 (ns)
2023-05-19 07:04:25.000375770 COMPLETED open_parallel_port(void).
```

MENU OF COMMANDS (ACTIONS).

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```
r Drive RIGHT-X the x-axis (3,2 CW) PINS = (1/0)(1) (0)(0) (0)(0)
l Drive LEFT-X the x-axis (1,0 CCW) PINS = (1)(0) (0)(0) (0)(0)
f Drive FORWARD-Y the y-axis (12,8 CW) PINS = (0)(0) (1/0)(1) (0)(0)
b Drive BACKWARD-Y the y-axis (4,0 CCW) PINS = (0)(0) (1)(0) (0)(0)
u Drive UP-Z the z-axis (16,0 CW) PINS = (0)(0) (0)(0) (1)(0)
d Drive DOWN-Z the z-axis (48,32 CCW) PINS = (0)(0) (0)(0) (1/0)(0)
q QUIT and exit this program.
```

Enter your command: (please wait after pressing a key until '... done').

```
2023-05-19 07:04:28.000566641 r drive_right (500) X-axis (3,2 CW) ==> (1/0)(1) (0)(0) (0)(0) running ... done.
2023-05-19 07:04:30.000033926 l drive_left (500) X-axis (1,0 CCW) ==> (1)(0) (0)(0) (0)(0) running ... done.
2023-05-19 07:04:34.000745700 f drive_forward (500) Y-axis (12,8 CW) ==> (0)(0) (1/0)(1) (0)(0) running ... done.
2023-05-19 07:04:35.000926734 b drive_backward(500) Y-axis (4,0 CCW) ==> (0)(0) (1)(0) (0)(0) running ... done.
2023-05-19 07:04:37.000685725 u drive_up (500) Z-axis (16,0 CW) ==> (0)(0) (0)(0) (1)(0) running ... done.
2023-05-19 07:04:39.000316870 d drive_down (500) Z-axis (48,32 CCW)=> (0)(0) (0)(0) (1/0)(1) running ... done.
2023-05-19 07:04:47.000480064 w ERROR: Invalid command: ==> char w or int 119
2023-05-19 07:04:58.000077765 w ERROR: Invalid command: ==> char w or int 119
2023-05-19 07:04:59.000496123 d drive_down (500) Z-axis (48,32 CCW)=> (0)(0) (0)(0) (1/0)(1) running ... done.
2023-05-19 07:05:01.000176386 g ERROR: Invalid command: ==> char g or int 103
2023-05-19 07:05:01.000974933 h ERROR: Invalid command: ==> char h or int 104
2023-05-19 07:05:03.000682274 1 ERROR: Invalid command: ==> char 1 or int 49
2023-05-19 07:05:04.000962333 2 ERROR: Invalid command: ==> char 2 or int 50
2023-05-19 07:05:06.000094901 r drive_right (500) X-axis (3,2 CW) ==> (1/0)(1) (0)(0) (0)(0) running ... done.
2023-05-19 07:05:07.000255926 c ERROR: Invalid command: ==> char c or int 99
```

2023-05-19 07:05:10.000798371 r drive_right (500) X-axis (3,2 CW) ==> (1/0)(1) (0)(0) (0)(0) running ... done.
2023-05-19 07:05:11.000960398 l drive_left (500) X-axis (1,0 CCW) ==> (1)(0) (0)(0) (0)(0) running ... done.
2023-05-19 07:05:13.000265492 f drive_forward (500) Y-axis (12,8 CW) ==> (0)(0) (1/0)(1) (0)(0) running ... done.
2023-05-19 07:05:16.000087293 b drive_backward(500) Y-axis (4,0 CCW) ==> (0)(0) (1)(0) (0)(0) running ... done.
2023-05-19 07:05:22.000646173 q Quit and exit. ==> Alhamdulillah. Done.

2023-05-19 07:05:22.000652065 EXECUTING close_parallel_port(void).
2023-05-19 07:05:22.000652106 SUCCESS: Close PARALLEL_PORT (/dev/lp0).
2023-05-19 07:05:22.000652119 SUCCESS: Display close_parport value = 0
2023-05-19 07:05:22.000652133 COMPLETED close_parallel_port(void).

2023-05-19 07:05:22.000652147 EXECUTING close_keyboard(void).
2023-05-19 07:05:22.000652166 SUCCESS: Display close_keyboard_value = 0
2023-05-19 07:05:22.000652179 COMPLETED close_keyboard(void).
2023-05-19 07:05:22.000652192 Alhamdulillah. Finished CNC keyboard jogging.

wruslan@HPEIBk8570w-rtwork1:~/WOM-WRY-UMP-PhD/2023-05-18-parallel-port/jogging-C-code\$
*/
// =====
See the attached file.

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WASSALAM
wruslandr

 **keyboard-jogging-code.c**
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