

Sat 22:00

vsduser@vsduser-VirtualBox: ~

File Edit View Search Terminal Help

vsduser@vsduser-VirtualBox:~\$ mkdir .txt

vsduser@vsduser-VirtualBox:~\$ ls

ab.txt apple.txt Documents ewce.txt

a.out Desktop Downloads examples.desktop

vsduser@vsduser-VirtualBox:~\$ ls -ltr

ls-ltr: command not found

vsduser@vsduser-VirtualBox:~\$ ls -ltr

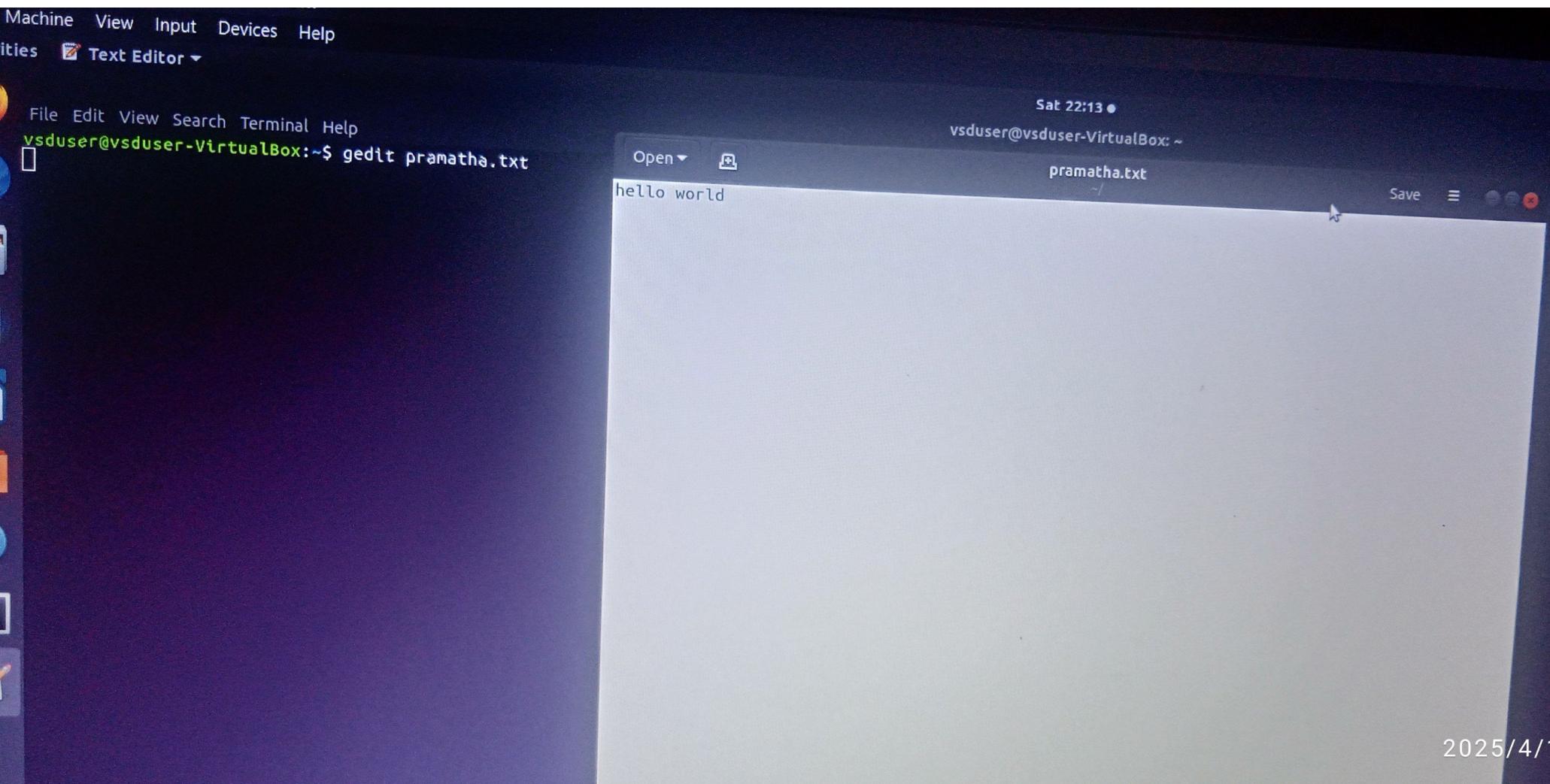
total 396

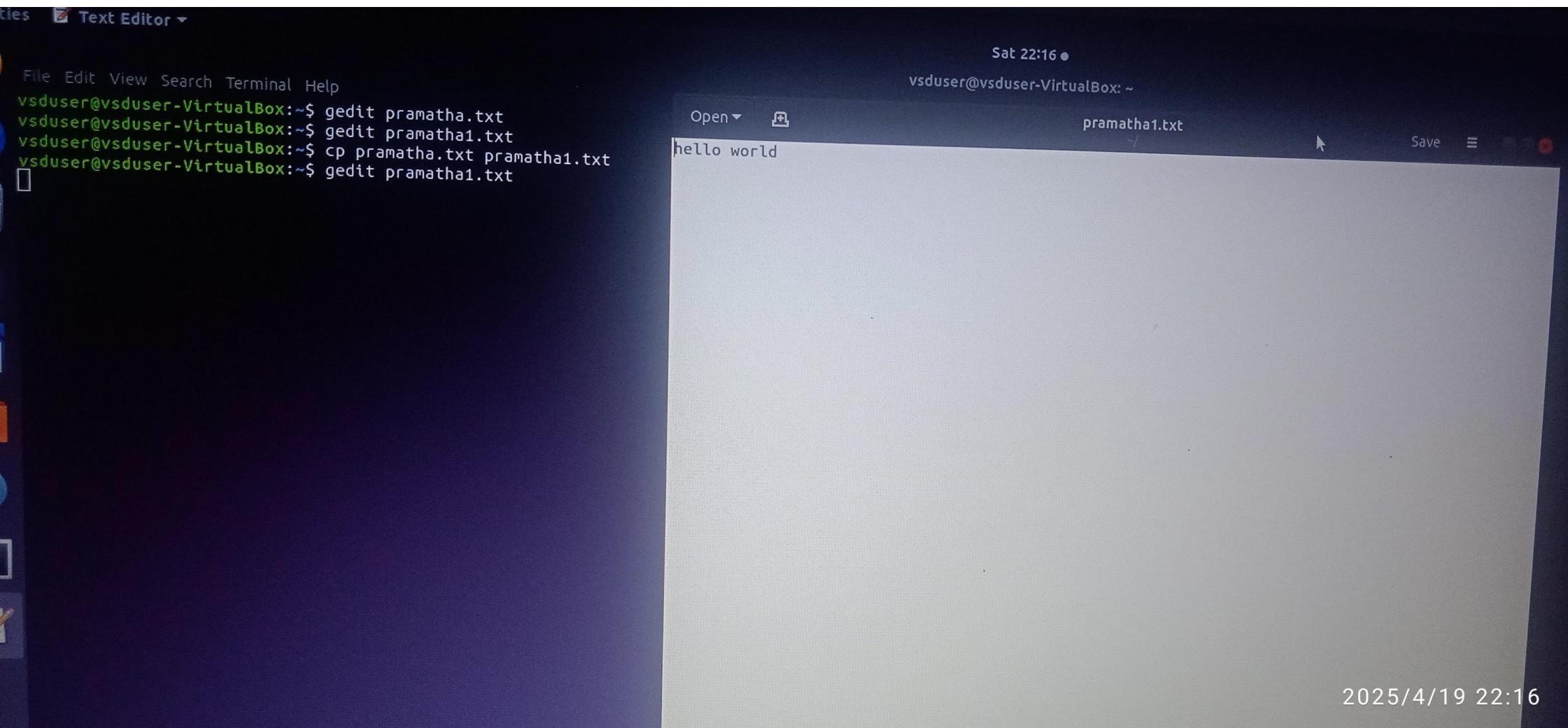
	Owner	Group	Size	Modified	Name
-rw-r--r--	1 vsduser vsduser	8980	Sep 18 2023		examples.desktop
drwxr-xr-x	2 vsduser vsduser	4096	Sep 18 2023		Videos
drwxr-xr-x	2 vsduser vsduser	4096	Sep 18 2023		Templates
drwxr-xr-x	2 vsduser vsduser	4096	Sep 18 2023		Public
drwxr-xr-x	2 vsduser vsduser	4096	Sep 18 2023		Pictures
drwxr-xr-x	2 vsduser vsduser	4096	Sep 18 2023		Music
drwxr-xr-x	2 vsduser vsduser	4096	Sep 18 2023		Downloads
drwxr-xr-x	2 vsduser vsduser	4096	Sep 18 2023		Documents
drwxr-xr-x	2 vsduser vsduser	4096	Sep 18 2023		Desktop
drwxrwxr-x	8 vsduser vsduser	4096	Sep 18 2023		riscv_workshop_collaterals
drwxrwxr-x	2 vsduser vsduser	4096	Mar 28 14:12		ab.txt
-rw-rw-r--	1 vsduser vsduser	6	Mar 28 14:31		kpr.txt
drwxrwxr-x	2 vsduser vsduser	4096	Mar 28 14:36		apple.txt
drwxrwxr-x	2 vsduser vsduser	4096	Mar 28 14:38		ewce.txt
-rw-----	1 vsduser vsduser	8	Mar 28 14:40		nano.save
drwxrwxr-x	2 vsduser vsduser	4096	Mar 28 14:41		hp.txt
-rwxrwxr-x	1 vsduser vsduser	263656	Mar 29 11:27		sum.o
-rw-rw-r--	1 vsduser vsduser	41	Mar 29 12:08		sum.c
-rw-rw-r--	1 vsduser vsduser	95	Mar 29 12:12		pv.c
-rwxrwxr-x	1 vsduser vsduser	8296	Mar 29 12:12		a.out
-rwxrwxr-x	1 vsduser vsduser	27064	Mar 29 12:19		pv.o
drwxrwxr-x	2 vsduser vsduser	4096	Mar 31 19:23		ppm.txt
-rw-rw-r--	1 vsduser vsduser	13	Mar 31 19:27		WORD
-rw-rw-r--	1 vsduser vsduser	5	Apr 4 18:48		pramathai.txt
-rw-rw-r--	1 vsduser vsduser	12	Apr 4 18:59	'pramatha.txt WORD'	

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```
-rw-rw-r-- 1 vsduser vsduser 13 Mar 31 19:27 WORD
-rw-rw-r-- 1 vsduser vsduser 5 Apr 4 18:48 pramatha1.txt
-rw-rw-r-- 1 vsduser vsduser 12 Apr 4 18:59 'pramatha.txt WORD'
vsduser@vsduser-VirtualBox:~$ ls -l
total 396
```

```
drwxrwxr-x 2 vsduser vsduser 4096 Mar 28 14:12 ab.txt
-rw-rw-r-x 1 vsduser vsduser 8296 Mar 29 12:12 a.out
drwxrwxr-x 2 vsduser vsduser 4096 Mar 28 14:36 apple.txt
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Desktop
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Documents
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Downloads
drwxrwxr-x 2 vsduser vsduser 4096 Mar 28 14:38 ewce.txt
-rw-r--r-- 1 vsduser vsduser 8980 Sep 18 2023 examples.desktop
drwxrwxr-x 2 vsduser vsduser 4096 Mar 28 14:41 hp.txt
-rw-rw-r-- 1 vsduser vsduser 6 Mar 28 14:31 kpr.txt
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Music
-rw----- 1 vsduser vsduser 8 Mar 28 14:40 nano.save
drwxr-xr-x 2 vsduser vsduser 4096 Apr 19 21:58 Pictures
drwxrwxr-x 2 vsduser vsduser 4096 Mar 31 19:23 ppm.txt
-rw-rw-r-- 1 vsduser vsduser 5 Apr 4 18:48 pramatha1.txt
-rw-rw-r-- 1 vsduser vsduser 12 Apr 4 18:59 'pramatha.txt WORD'
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Public
-rw-rw-r-- 1 vsduser vsduser 95 Mar 29 12:12 pv.c
-rw-rw-r-x 1 vsduser vsduser 27064 Mar 29 12:19 pv.o
drwxrwxr-x 8 vsduser vsduser 4096 Sep 18 2023 riscv_workshop_collaterals
-rw-rw-r-- 1 vsduser vsduser 41 Mar 29 12:08 sum.c
-rw-rw-r-x 1 vsduser vsduser 263656 Mar 29 11:27 sum.o
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Templates
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Videos
-rw-rw-r-- 1 vsduser vsduser 13 Mar 31 19:27 WORD
vsduser@vsduser-VirtualBox:~$
```





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Sat 22:19

vsduser@vsduser-VirtualBox: ~

Edit View Search Terminal Help

```
ser@vsduser-VirtualBox:~$ gedit pramatha.txt
ser@vsduser-VirtualBox:~$ gedit pramatha1.txt
ser@vsduser-VirtualBox:~$ cp pramatha.txt pramatha1.txt
ser@vsduser-VirtualBox:~$ gedit pramatha1.txt
ser@vsduser-VirtualBox:~$ pwd
```

/vsduser

```
ser@vsduser-VirtualBox:~$ ls
```

txt	apple.txt	Documents	ewce.txt	hp.txt	Music	Pictures	pramatha.	pramatha.txt	Public	pv.o	sum.c	T
ut	Desktop	Downloads	examples.desktop	kpr.txt	nano.save	ppm.txt	pramatha1.txt	'pramatha.txt WORD'	pv.c	riscv_workshop_collaterals	sum.o	't

```
ser@vsduser-VirtualBox:~$ rm pramatha1.txt
```

```
ser@vsduser-VirtualBox:~$ ls
```

txt	apple.txt	Documents	ewce.txt	hp.txt	Music	Pictures	pramatha.	'pramatha.txt WORD'	Public	pv.c	riscv_workshop_collaterals	sum.o	't
ut	Desktop	Downloads	examples.desktop	kpr.txt	nano.save	ppm.txt	pramatha1.txt	Public	pv.o	sum.c	Templates	Template	

```
ser@vsduser-VirtualBox:~$
```

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Activities  Text Editor ▾



File Edit View Search Terminal Help

vsduser@vsduser-VirtualBox:~\$ gedit pv.c



Sat 22:22 ●

vsduser@vsduser-VirtualBox: ~

Open ▾ 

pv.c

Save 

```
#include <stdio.h>

int main() {
    printf("Hello, RISC-V 64-bit World!\n");
    return 0;
}
```

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Activities  Text Editor ▾

 File Edit View Search Terminal Help
vsduser@vsduser-VirtualBox:~\$ gedit pv.c

Sat 22:22 ●
vsduser@vsduser-VirtualBox: ~

Open                          

pv.c

~/

Save

#include <stdio.h>

int main() {
 printf("Hello, RISC-V 64-bit World!\n");
 return 0;
}

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Sat 22:23

vsduser@vsduser-VirtualBo

File Edit View Search Terminal Help

```
vsduser@vsduser-VirtualBox:~$ gedit pv.c
vsduser@vsduser-VirtualBox:~$ gcc pv.c
vsduser@vsduser-VirtualBox:~$ ./a.out
Hello, RISC-V 64-bit World!
vsduser@vsduser-VirtualBox:~$
```

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Activities Terminal

```
File Edit View Search Terminal Help  
vsduser@vsduser-VirtualBox:~$ gedit pv.c  
vsduser@vsduser-VirtualBox:~$ gcc pv.c  
vsduser@vsduser-VirtualBox:~$ ./a.out  
Hello, RISC-V 64-bit World!  
vsduser@vsduser-VirtualBox:~$ spike pk pv.o  
bbl loader  
Hello, RISC-V 64-bit World!  
vsduser@vsduser-VirtualBox:~$
```

vsduser

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```
File Edit View Search Terminal Help  
vsduser@vsduser-VirtualBox:~$ gedit pv.c  
vsduser@vsduser-VirtualBox:~$ gcc pv.c  
Hello, RISC-V 64-bit World!  
vsduser@vsduser-VirtualBox:~$ spike pk pv.o  
bbl loader  
Hello, RISC-V 64-bit World!  
vsduser@vsduser-VirtualBox:~$ gedit pnr.c
```



Sat 22:29 ●
vsduser@vsduser-VirtualBox: ~

*pnr.c
~/

Open ▾ +

```
#include <stdio.h>

int main() {
    int counter = 0;

    // Let's count from 0 to 9
    for (int i = 0; i < 10; i++) {
        counter++;
        printf("Counter: %d\n", counter);
    }

    return 0;
}
```

Save

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```
vsduser@vsduser-VirtualBox:~$ gedit pv.c
vsduser@vsduser-VirtualBox:~$ gcc pv.c
vsduser@vsduser-VirtualBox:~$ ./a.out
Hello, RISC-V 64-bit World!
vsduser@vsduser-VirtualBox:~$ spike pk pv.o
bbl loader
Hello, RISC-V 64-bit World!
vsduser@vsduser-VirtualBox:~$ gedit pnr.c
vsduser@vsduser-VirtualBox:~$ gcc pnr.c
vsduser@vsduser-VirtualBox:~$ ./a.out
Counter: 1
Counter: 2
Counter: 3
Counter: 4
Counter: 5
Counter: 6
Counter: 7
Counter: 8
Counter: 9
Counter: 10
vsduser@vsduser-VirtualBox:~$
```

```
3 void GPIO_Config(void)
4 {
5     GPIO_InitTypeDef GPIO_InitStructure = {0};
6
7     RCC_APB2PeriphClockCmd(RCC_APB2Periph_GPIOD , ENABLE);
8
9     GPIO_InitStructure.GPIO_Pin = GPIO_Pin_6;
10    GPIO_InitStructure.GPIO_Mode = GPIO_Mode_Out_PP;
11    GPIO_InitStructure.GPIO_Speed = GPIO_Speed_50MHz;
12    GPIO_Init(GPIOD, &GPIO_InitStructure);
13 }
14
15 int main(void)
16 {
17     SystemCoreClockUpdate();
18     Delay_Init();
19     GPIO_Config();
20 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

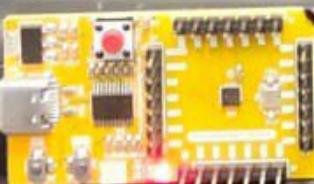
Build - Task ✓ + □ ☰ … ^ x

```
...
Scanning dependencies...
No dependencies
Building in release mode
Checking size .pio\build\vsdsquadronMini\firmware.elf
Advanced Memory Usage is available via "PlatformIO Home > Project Inspect"
RAM: [=          ] 13.9% (used 284 bytes from 2048 bytes)
Flash: [=         ] 8.7% (used 1432 bytes from 16384 bytes)
=====
[SUCCESS] Took 1.71 seconds
```

Terminal will be reused by tasks, press any key to close it.

Battery status: 75% remaining

03:15
29-03-2025



ASUS ExpertBook

