

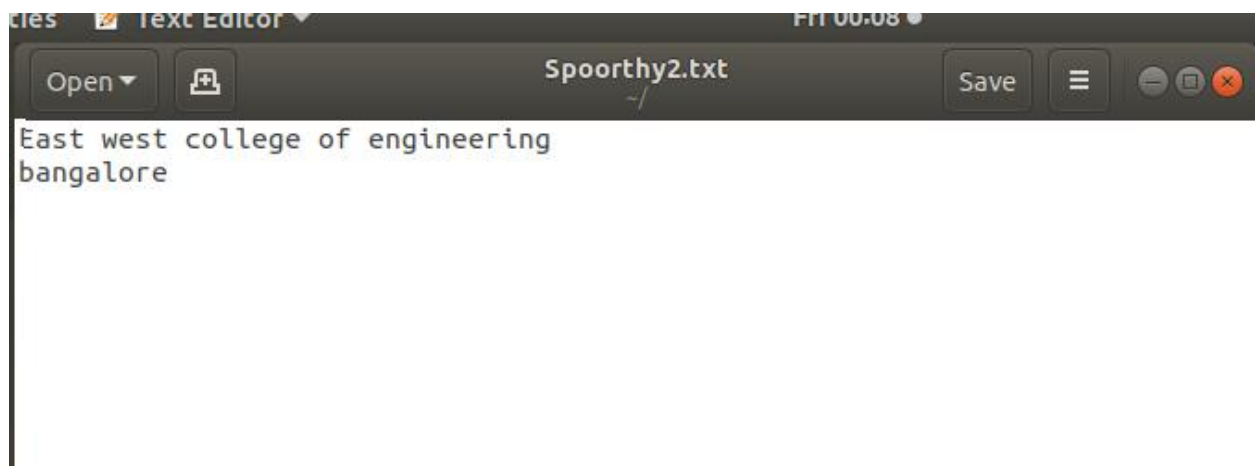
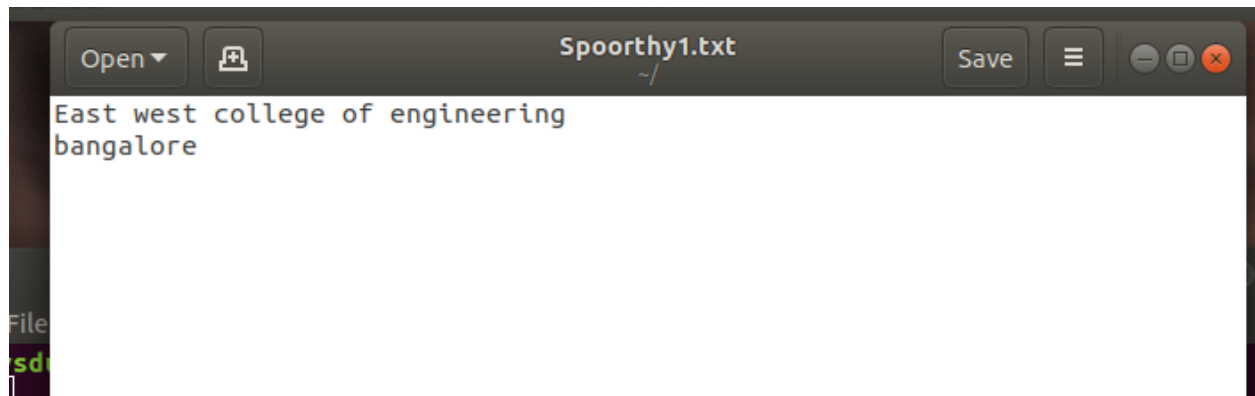
```
vsduser@vsduser-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
vsduser@vsduser-VirtualBox:~$ mkdir Spoorthy
vsduser@vsduser-VirtualBox:~$ ls
a.out          Music          spoo1.o       spoorthy.txt
Desktop        Pictures       spoo2.c       Templates
Documents      Public
Downloads      riscv_workshop_collaterals  spoorthy
examples.desktop  spoo1.c       Spoorthy
vsduser@vsduser-VirtualBox:~$ cd Desktop
vsduser@vsduser-VirtualBox:~/Desktop$ ls
vsduser@vsduser-VirtualBox:~/Desktop$
```

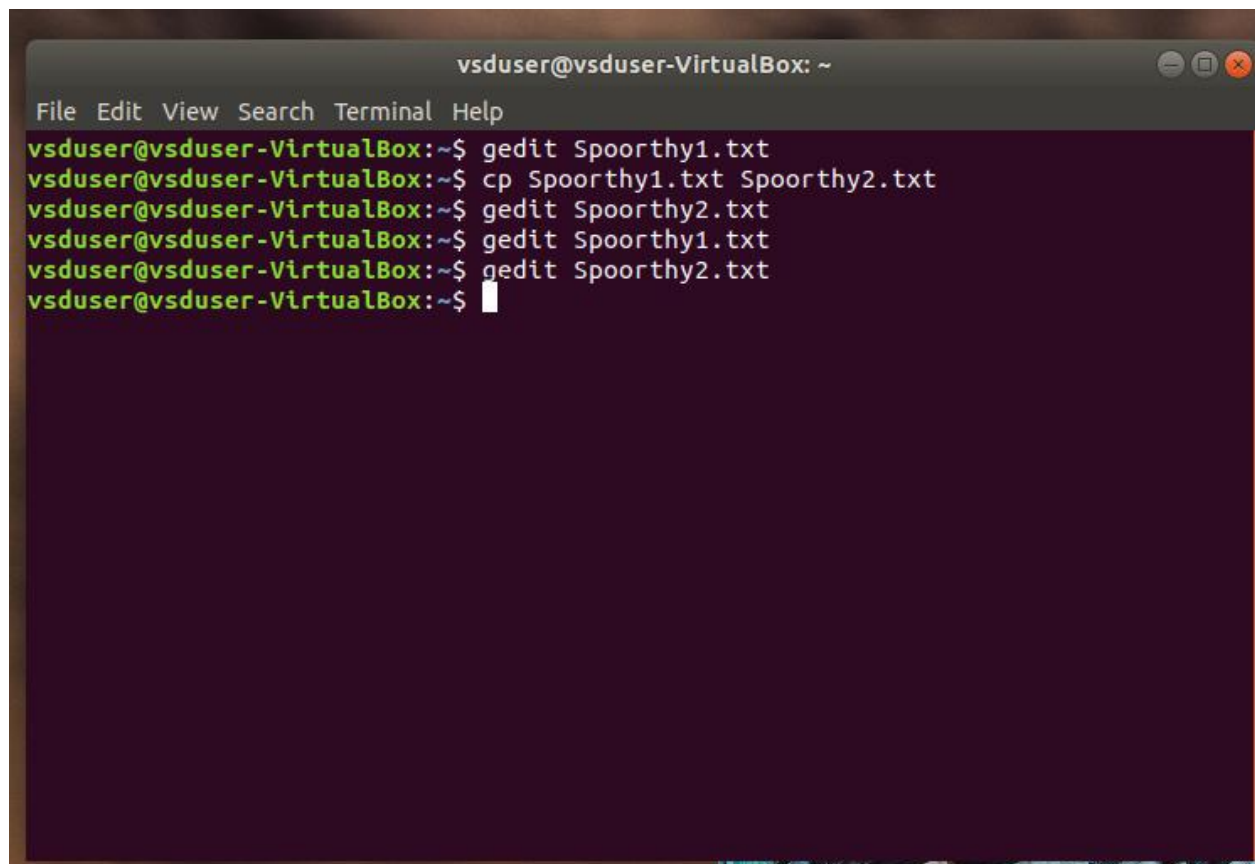
```
vsduser@vsduser-VirtualBox: ~  
File Edit View Search Terminal Help  
vsduser@vsduser-VirtualBox:~/Desktop$ ls  
vsduser@vsduser-VirtualBox:~/Desktop$ ls -ltr  
total 0  
vsduser@vsduser-VirtualBox:~/Desktop$ cd ..  
vsduser@vsduser-VirtualBox:~$ ls -ltr  
total 508  
-rw-r--r-- 1 vsduser vsduser 8980 Sep 18 2023 examples.desktop  
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 Music  
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Downloads  
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Documents  
drwxrwxr-x 8 vsduser vsduser 4096 Sep 18 2023 riscv_workshop_collaterals  
drwxr-xr-x 2 vsduser vsduser 4096 Mar 30 00:22 Desktop  
drwxrwxr-x 2 vsduser vsduser 4096 Mar 30 00:55 spoorthy  
-rw-rw-r-- 1 vsduser vsduser 13 Mar 30 00:58 spoorthy.txt  
-rw-rw-r-- 1 vsduser vsduser 244 Mar 30 01:23 spoo1.c  
-rw-rw-r-- 1 vsduser vsduser 1142 Mar 30 01:34 spoo2.c  
-rwxrwxr-x 1 vsduser vsduser 8552 Mar 30 01:34 a.out  
-rwxrwxr-x 1 vsduser vsduser 263664 Mar 30 01:36 spoo1.o  
-rwxrwxr-x 1 vsduser vsduser 173584 Mar 30 01:38 spoo2.o  
drwxrwxr-x 2 vsduser vsduser 4096 Apr 3 23:53 Spoorthy  
drwxr-xr-x 2 vsduser vsduser 4096 Apr 3 23:55 Pictures  
vsduser@vsduser-VirtualBox:~$
```

```
vsduser@vsduser-VirtualBox: ~
File Edit View Search Terminal Help
total 0
vsduser@vsduser-VirtualBox:~/Desktop$ cd..
cd..: command not found
vsduser@vsduser-VirtualBox:~/Desktop$ cd ..
vsduser@vsduser-VirtualBox:~$ ls -l
total 508
-rwxrwxr-x 1 vsduser vsduser 8552 Mar 30 01:34 a.out
drwxr-xr-x 2 vsduser vsduser 4096 Mar 30 00:22 Desktop
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Documents
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Downloads
-rw-r--r-- 1 vsduser vsduser 8980 Sep 18 2023 examples.desktop
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Music
drwxr-xr-x 2 vsduser vsduser 4096 Apr 3 23:55 Pictures
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Public
drwxrwxr-x 8 vsduser vsduser 4096 Sep 18 2023 riscv_workshop_collaterals
-rw-rw-r-- 1 vsduser vsduser 244 Mar 30 01:23 spoo1.c
-rwxrwxr-x 1 vsduser vsduser 263664 Mar 30 01:36 spoo1.o
-rw-rw-r-- 1 vsduser vsduser 1142 Mar 30 01:34 spoo2.c
-rwxrwxr-x 1 vsduser vsduser 173584 Mar 30 01:38 spoo2.o
drwxrwxr-x 2 vsduser vsduser 4096 Mar 30 00:55 spoorthy
drwxrwxr-x 2 vsduser vsduser 4096 Apr 3 23:53 Spoorthy
-rw-rw-r-- 1 vsduser vsduser 13 Mar 30 00:58 spoorthy.txt
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Templates
vsduser@vsduser-VirtualBox:~$
```

```
vsduser@vsduser-VirtualBox: ~
File Edit View Search Terminal Help
GNU nano 2.9.3 Spoorthy.txt Modified
EAST WEST COLLEGE OF ENGINEERING
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line
```

```
vsduser@vsduser-VirtualBox: ~  
File Edit View Search Terminal Help  
vsduser@vsduser-VirtualBox:~$ nano Spoorthy.txt  
vsduser@vsduser-VirtualBox:~$ sudo apt install gedit  
[sudo] password for vsduser:  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
gedit is already the newest version (3.28.1-1ubuntu1.2).  
0 upgraded, 0 newly installed, 0 to remove and 309 not upgraded.  
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy.txt
```



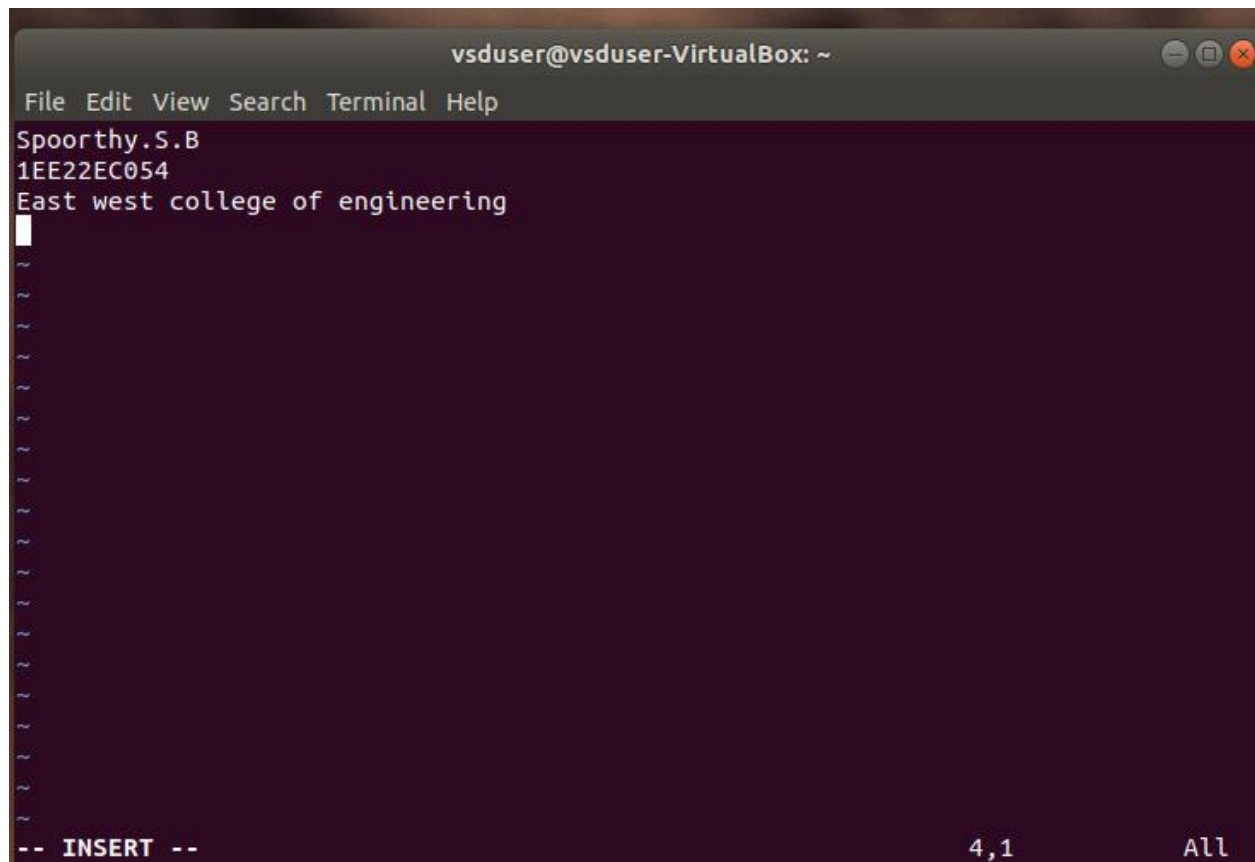
A terminal window titled "vsduser@vsduser-VirtualBox: ~" with standard window controls. The menu bar includes "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal shows a sequence of commands: opening "Spoorthy1.txt" with gedit, copying it to "Spoorthy2.txt", opening "Spoorthy2.txt" with gedit, opening "Spoorthy1.txt" with gedit, and opening "Spoorthy2.txt" with gedit. The prompt returns to the shell after each command.

```
vsduser@vsduser-VirtualBox: ~  
File Edit View Search Terminal Help  
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy1.txt  
vsduser@vsduser-VirtualBox:~$ cp Spoorthy1.txt Spoorthy2.txt  
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy2.txt  
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy1.txt  
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy2.txt  
vsduser@vsduser-VirtualBox:~$
```

```
vsduser@vsduser-VirtualBox: ~
File Edit View Search Terminal Help
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy1.txt
vsduser@vsduser-VirtualBox:~$ cp Spoorthy1.txt Spoorthy2.txt
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy2.txt
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy1.txt
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy2.txt
vsduser@vsduser-VirtualBox:~$ pwd
/home/vsduser
vsduser@vsduser-VirtualBox:~$ ls
a.out          Music          spoo1.o        Spoorthy1.txt
Desktop        Pictures       spoo2.c        Spoorthy2.txt
Documents      Public         spoo2.o        spoorthy.txt
Downloads     riscv_workshop_collaterals spoorthy       Spoorthy.txt
examples.desktop spoo1.c       Spoorthy       Templates
vsduser@vsduser-VirtualBox:~$
```




```
vsduser@vsduser-VirtualBox: ~
File Edit View Search Terminal Help
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy2.txt
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy1.txt
vsduser@vsduser-VirtualBox:~$ gedit Spoorthy2.txt
vsduser@vsduser-VirtualBox:~$ pwd
/home/vsduser
vsduser@vsduser-VirtualBox:~$ ls
a.out          Music          spoo1.o        Spoorthy1.txt
Desktop        Pictures       spoo2.c        Spoorthy2.txt
Documents      Public        spoo2.o        spoorthy.txt
Downloads      riscv_workshop_collaterals  spoorthy      Spoorthy.txt
examples.desktop  spoo1.c      Spoorthy      Templates
vsduser@vsduser-VirtualBox:~$ rm spoo1.txt
rm: cannot remove 'spoo1.txt': No such file or directory
vsduser@vsduser-VirtualBox:~$ spoorthy.txt
spoorthy.txt: command not found
vsduser@vsduser-VirtualBox:~$ rm spoorthy.txt
vsduser@vsduser-VirtualBox:~$ rm spoo1.c
vsduser@vsduser-VirtualBox:~$ ls
a.out          Music          spoo2.c        Spoorthy2.txt
Desktop        Pictures       spoo2.o        Spoorthy.txt
Documents      Public        spoorthy       Templates
Downloads      riscv_workshop_collaterals  Spoorthy
examples.desktop  spoo1.o      Spoorthy1.txt
vsduser@vsduser-VirtualBox:~$
```



Editor ▾

Fri 00:17 ●

Open ▾



*spoorthy.c

Save

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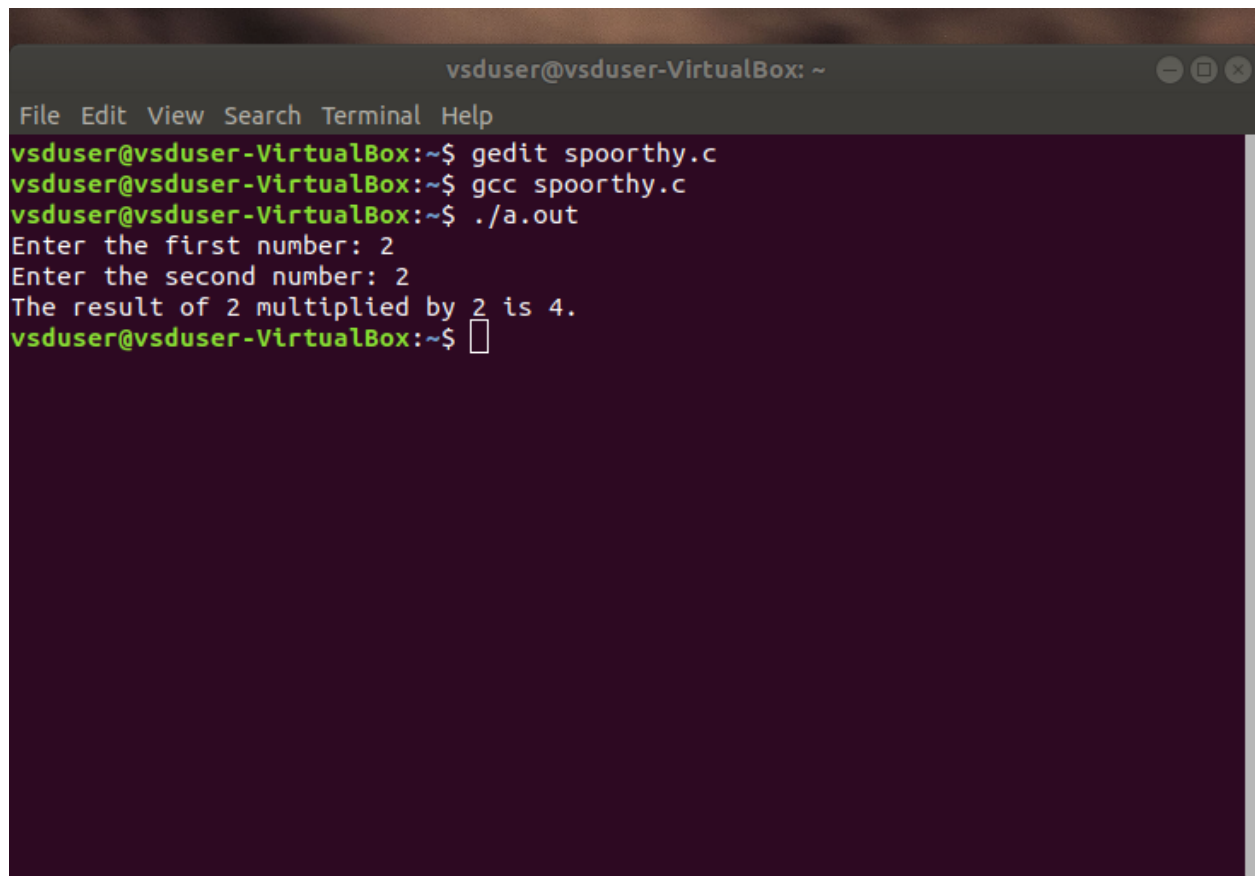
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```
#include <stdio.h>

int main() {
    int num1, num2, result;
    printf("Enter the first number: ");
    scanf("%d", &num1);
    printf("Enter the second number: ");
    scanf("%d", &num2);
    result = num1 * num2;
    printf("The result of %d multiplied by %d is %d.\n", num1, num2,
result);

    return 0;
}
```



```
vsduser@vsduser-VirtualBox: ~  
File Edit View Search Terminal Help  
vsduser@vsduser-VirtualBox:~$ gedit spoorthy.c  
vsduser@vsduser-VirtualBox:~$ gcc spoorthy.c  
vsduser@vsduser-VirtualBox:~$ ./a.out  
Enter the first number: 2  
Enter the second number: 2  
The result of 2 multiplied by 2 is 4.  
vsduser@vsduser-VirtualBox:~$
```

```
vsduser@vsduser-VirtualBox: ~
File Edit View Search Terminal Help
vsduser@vsduser-VirtualBox:~$ gedit spoorthy.c
vsduser@vsduser-VirtualBox:~$ gcc spoorthy.c
vsduser@vsduser-VirtualBox:~$ ./a.out
Enter the first number: 2
Enter the second number: 2
The result of 2 multiplied by 2 is 4.
vsduser@vsduser-VirtualBox:~$ riscv64-unknown-elf-gcc -O1 -mabi=lp64 -march=rv64
i -o spoorthy.o spoorthy.c
vsduser@vsduser-VirtualBox:~$ spike pk spoorthy.o
bbl loader
Enter the first number: 2
Enter the second number: 2
The result of 2 multiplied by 2 is 4.
vsduser@vsduser-VirtualBox:~$
```