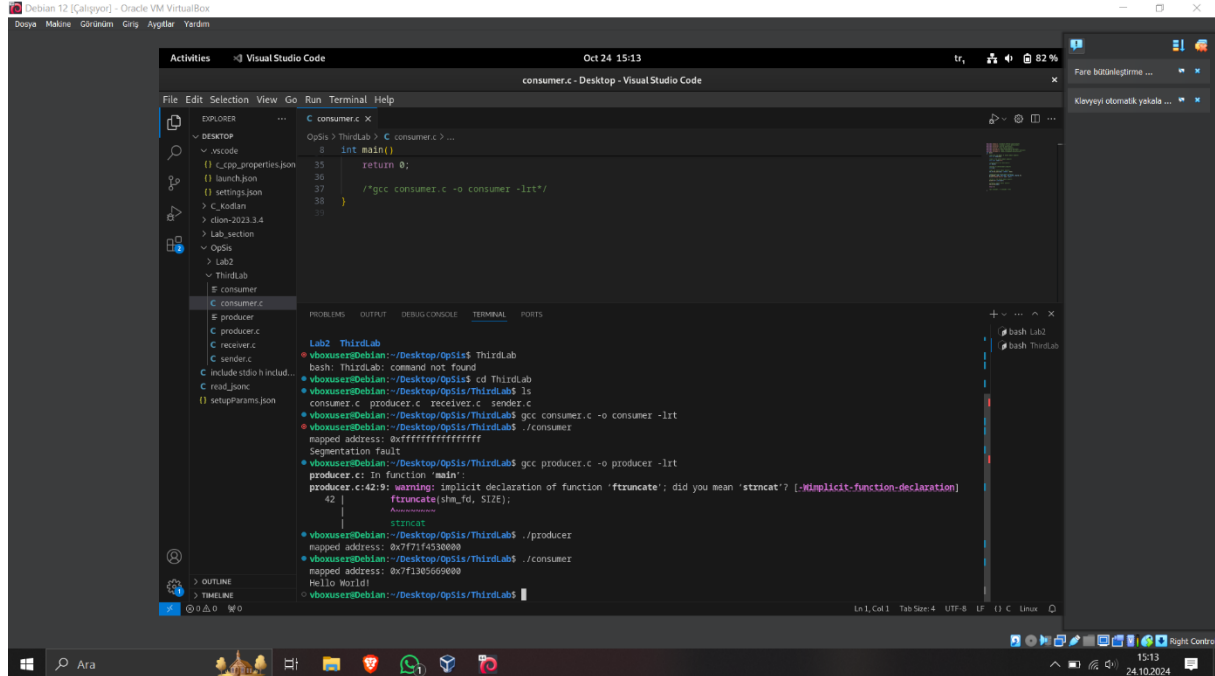


# LAB 02 - PART B



```
Oct 24 15:13
consumer.c - Desktop - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER
DESKTOP
  C:\_properties.json
  C:\_launch.json
  C:\_settings.json
  C:\_kodi.json
  C:\_dion-2023.3.4
  Lab_section
  Lab2
  ThirdLab
  consumer
  producer
  producer.c
  receiver.c
  sender.c
  include_stdio.h.includ...
  C:\_readme.json
  C:\_setupParams.json

C:\_consumer.c
C:\_producer.c
C:\_receiver.c
C:\_sender.c
C:\_include_stdio.h.includ...
C:\_readme.json
C:\_setupParams.json

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Lab2 ThirdLab
vboxuser@Debian:~/Desktop/Opis/ThirdLab$ ThirdLab
bash: ThirdLab: command not found
vboxuser@Debian:~/Desktop/Opis/ThirdLab$ cd ThirdLab
vboxuser@Debian:~/Desktop/Opis/ThirdLab$ ls
consumer.c producer.c receiver.c sender.c
vboxuser@Debian:~/Desktop/Opis/ThirdLab$ gcc consumer.c -o consumer -lrt
mapped address: 0xffffffffffffff
Segmentation fault
vboxuser@Debian:~/Desktop/Opis/ThirdLab$ gcc producer.c -o producer -lrt
producer.c: In function 'main':
producer.c:42:9: warning: implicit declaration of function 'fruncate'; did you mean 'stincat'? [-Wimplicit-function-declaration]
42 |         fruncate(shm_fd, SIZE);
    |         ^~~~~~
    |         stincat
vboxuser@Debian:~/Desktop/Opis/ThirdLab$ ./producer
mapped address: 0x77714530000
vboxuser@Debian:~/Desktop/Opis/ThirdLab$ ./consumer
mapped address: 0x7f130560000
Hello World!
vboxuser@Debian:~/Desktop/Opis/ThirdLab$
```

The producer.c and consumer.c files demonstrate how two programs can communicate by using shared memory. In producer.c, the program sets up a shared memory region, where it writes data that will be accessible to another process. This is accomplished with functions like shm\_open, which creates the shared memory object, and mmap, which maps this memory into the process's address space. The producer.c program acts as a sender, storing information in the shared memory.

