LABORATORY 5

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OPERATING SYSTEMS

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**EXERCISE 1**

Write a program which has installed handlers for SIGUSR1, SIGTERM, SIGINT, SIGTSTP signsls.

These handlers should  display the messages with names of these signals.

Prepare **two versions of this program**:

* **using signal function**
* **using  sigaction function.**

**Escala de tiempo

Descripción generada automáticamenteSIgnal versión:**

**Signaction version:**

**Escala de tiempo

Descripción generada automáticamente con confianza media**

**Here we can observe in the terminal how the code is executed:**

**Texto

Descripción generada automáticamente**

**Texto

Descripción generada automáticamenteTexto

Descripción generada automáticamente**

**EXERCISE 2:**

**Write two programs:  Sender and Receiver.Sender should send a given number, specified by one of the program arguments,  of SIGUSER1 signals to Receiver and a SIGUSER2 signal at the end of transmission. Receiver should display the number of SIGUSER1 signals it has received**.

Preparte three versions of this program.

#### **Version 1.**

–Sender sends SIGUSR1 signals and one SIGUSR2 to Receiver.

–After receiving the  SIGUSER2  signal, Receiver displays the number of received SIGUSR1 signals.

**This is the code of the receiver program :**

Texto

Descripción generada automáticamente

This is the code of the sender program:

Texto

Descripción generada automáticamente

#### **This is the code execute:**

**Texto

Descripción generada automáticamente**

#### **Version 2.**

– Receiver confirms the receipt of each of SIGUSR1 signal by sending it back to the Sender. Sender waits for the  SIGUSER1 signal before sending the next signal to the Receiver, to guarantee the correct number of the signal received by the Receiver.  The Receiver should display the number of the received SIGUSR signal, such as it was done in **Version 1**.

**This is the code of the sender:**

Texto

Descripción generada automáticamente

**This is the code of the receiver:**

Texto

Descripción generada automáticamente