COP5615 Distributed Operating System Principles

ReadMe for Project 4.1

-------------------------------------------------------------------------------------------------------------------------------

Group Info

Pratik Pandit UFID: 9860-9139

Ravikiran Nety UFID: 3557-1915

-------------------------------------------------------------------------------------------------------------------------------

Instructions to run the programs

Navigate inside the folder

**Compile:**

scalac actorlog.scala

scalac example.scala

**Run:**

scala example

-------------------------------------------------------------------------------------------------------------------------------

What is working

In the example.scala, we have implemented a simple two way communication protocol for an interrogation scenario. We have logged important information, sent messages, and received messages.

All the requirements of the project 4.1 are being fulfilled.

------------------------------------------------------------------------------------------------------------------------------

Bonus

-------------------------------------------------------------------------------------------------------------------------------

Our project satisfies the bonus requirements. The actorlog class is inherited to enable logging in the example.

------------------------------------------------------------------------------------------------------------------------------

How you integrated logging with the actors

-------------------------------------------------------------------------------------------------------------------------------

Actorlog class consists of all the functions required for logging and extends Actor class.

InfoLogger logs information, WarningLogger logs warnings, ErrorLogger logs errors.

SenderLogger logs information about sent messages

ReceiveLogger logs information about receieved messages

The Example class inherits these functions from the ActorLog class by extending it

It calls the functions inherited based on the type of logging required

------------------------------------------------------------------------------------------------------------------------------

What log files are produced by the example.scala and how to interpret them

-------------------------------------------------------------------------------------------------------------------------------

The log file is created for every actor.

The name of the log file is the name – Actor\_(ActorID).log

The type of information in log file:

Time : Timestamp when the ‘information’ was logged

Type : Type of log (error, warning, info, message)

Source : Actor who sent/received the message depending on sent/received type of log

Destination : Actor who sent/received the message depending on sent/received type of log

Information : Addition information about the message

State : State of the actor

Case : Case which sent or received the log message