**OPERATING SYSTEMS LABORATORY**

**MINI PROJECT**

**OSX PERSONAL ASSISTANT**

**Abstract:**

This project is aimed at creating a personal assistant for Mac OsX. The personal assistant should be able to provide the vital stats of the machine like the Battery stats, Memory stats, CPU Stats. Also, it should be able to check continuously in given intervals, if a specific website is up or down. It should be able to provide a virtual chat bot which should be able to communicate with the user and respond to user queries.

**Platform:** Mac OSX

**Programming Languages:** Python, C, Bash

Bash scripts are used to get the vital stats of the machine. Python is used to build the site monitor and C is used to build the virtual chatbot (named as MacBot).

The chatbot is built using the concepts of Inter process communication (IPC) such that the machine is in another terminal and the user interacts in a separate terminal.

**Future Scope:**

* The chat bot can be developed in such a way that it is hosted in a cloud server and through IPC it must be able to interact with all mac users.
* UI can be provided to the vital stats monitors.
* Separate UI can be provided for the site monitor so that it constantly monitors a site without any intervention

**Project Done by:**

**Arun Prasad M (2016103507)**