

**PROJ 5 : Using Jasmin To Run x86 Assembly Code**

*Prof. Alberto LaCava*

**CY -640**

**MALWARE ANALYSIS & DEFENSE**

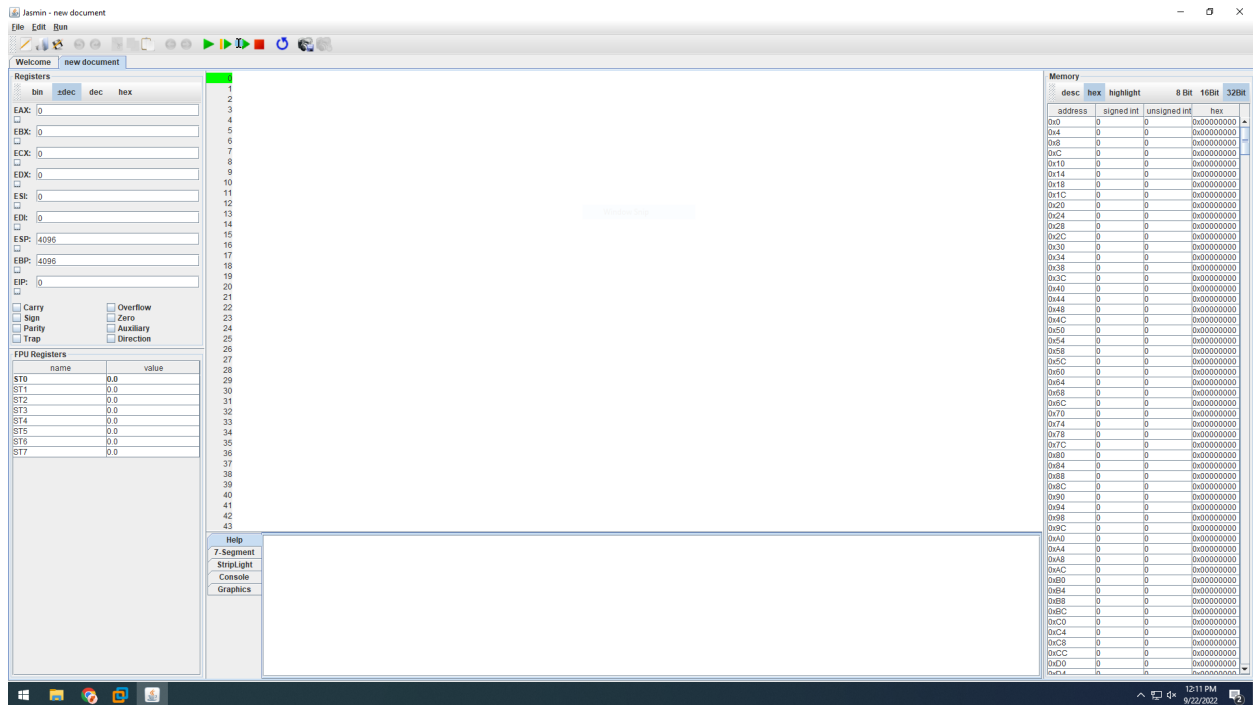
*Nikhil Patel*

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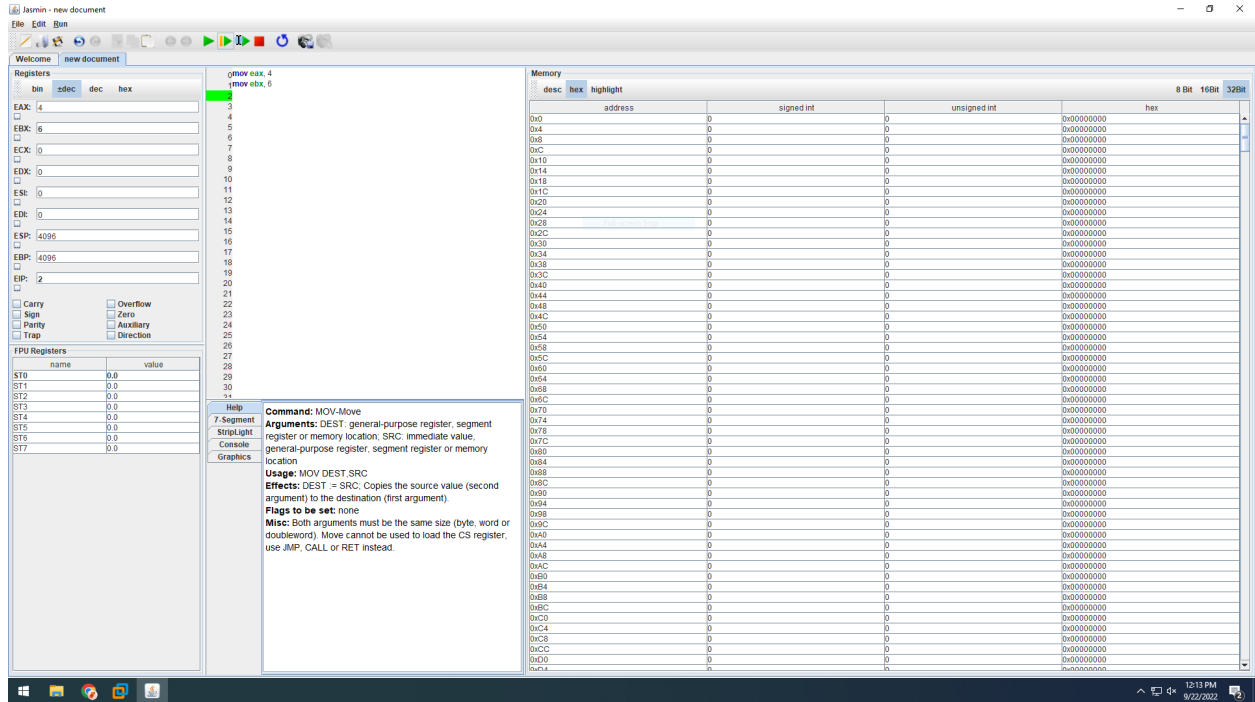
**Introduction** : In this lab, we will execute x86 assembly code using a jasmin interpreter and learn about how jasmin works.

## **Procedure** :

- Go to Downloads and search for jamin-1.5.8.jar file and then extract that file.
- Launch the exe file and click on file/New files.



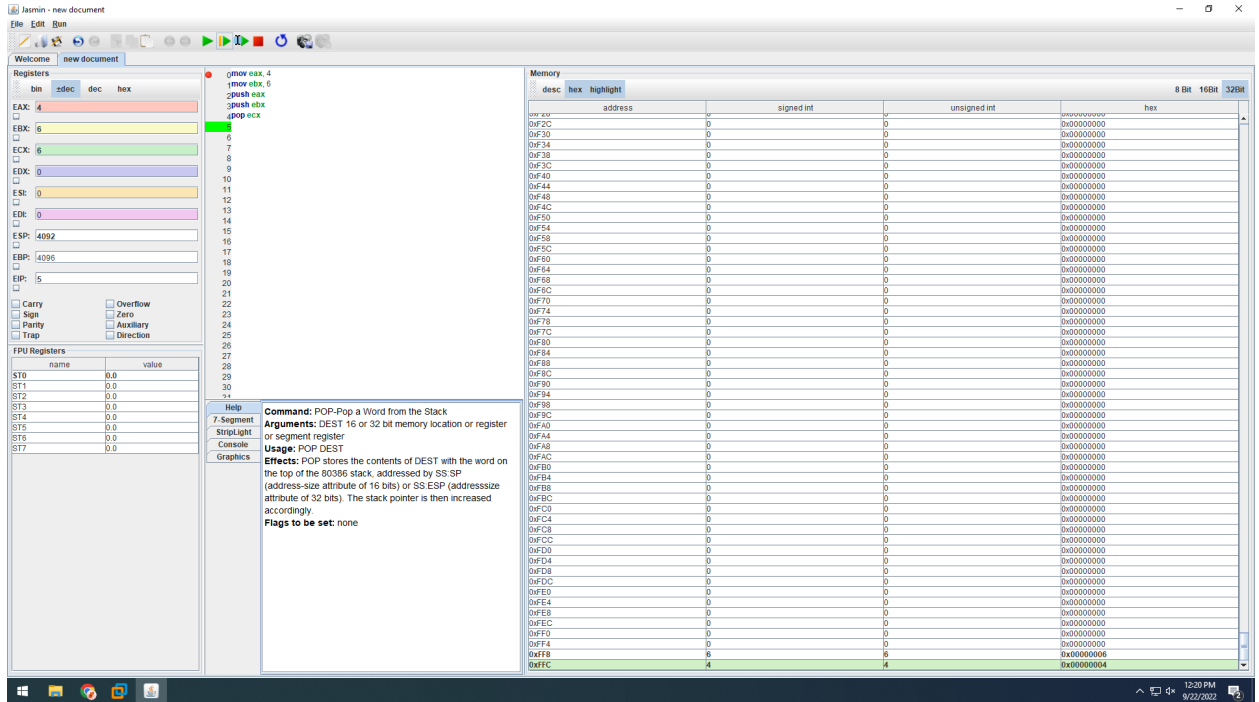
- Now we will perform a Mov function.
- Type the below command in code filed :
  - mov eax, 4
  - mov ebx, 6
- After that click on Run to execute the code.



## Storing Results in Memory

- Now we will perform more codes in the same field. Type :
  - mov eax, 4
  - mov ebx, 6
  - mov [eax], ebx
  - mov [ecx], eax
  - mov ecx, eax
  - add ecx, ebx
  - mov [eax + 4], ecx
- After typing the above code click the button right next to run until the green bar crosses the last code.

- Type the below command in the code field and click run.
  - `mov eax, 4`
  - `mov ebx, 6`
  - `push eax`
  - `push ebx`
  - `Pop ecx`
- You will see the change in register, take a screenshot of that value.



## Reversing a Sequence

