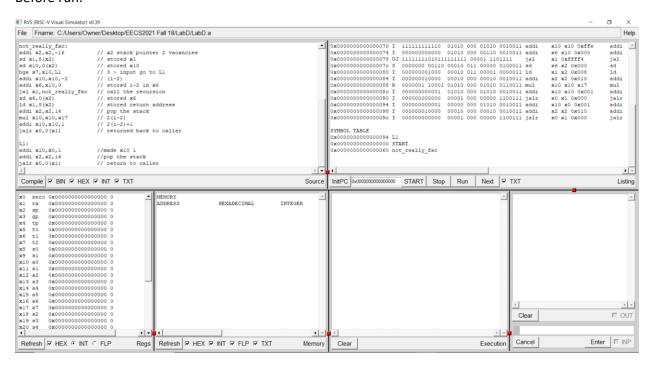
## EECS 2021E Zamir Lalji Student #212779997 LabD

```
addi x2,x0,1600
                                // stack pointer
addi x7,x0,3
                                // x7 = 3
addi x17,x0,2
                                // x17 = 2
ecall x6,x0,5
                                // environmental call int put it to x6
add x10,x6,x0
                                // store x6 in x10
addi x2,x2,-8
                                // two vacancies for the stack
sd x6,0(x2)
                                // store x2 in x6
jal x1, not_really_fac
                                // call recursive function
ld x6,0(x2)
                                // restore x6 argument
addi x2,x2,8
                                // restored the stack
ecall x0,x10,0
                                // ecall to the prompt
ORG 96
not_really_fac:
addi x2,x2,-16
                                // x2 stack pointer 2 vacancies
sd x1,8(x2)
                                // stored x1
sd x10,0(x2)
                                // stored x10
bge x7,x10,L1
                                // 3 > input go to L1
addi x10,x10,-2
                                // (i-2)
                                // stored i-2 in x6
addi x6,x10,0
jal x1,not_really_fac
                                        // call the recursion
sd x6,0(x2)
                                // stored x6
ld x1,8(x2)
                                // stored return address
addi x2,x2,16
                                // pop the stack
mul x10,x10,x17
                                        // 2(i-2)
addi x10,x10,1
                                // 2(i-2)+1
jalr x0,0(x1)
                                // returned back to caller
```

## L1:

```
addi x10,x0,1 //made x10\,1
addi x2,x2,16 //pop the stack
jalr x0,0(x1) // return to caller
```

## Before run:



## After Compile and Run with the output:

