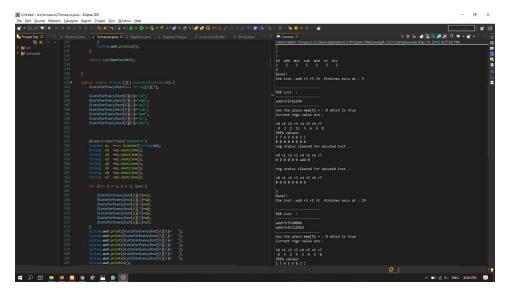
Microprocessor Tomasulo Algorithm:

- 1-Team members:
 - 1-Mahmoud Mostafa Basha 40-1748
 - 2- Mohamed gamal Yousef 40-12812
 - 3- Abdelrahman Adel abudif 40-1979
 - 4-Abdelrahman Elsayed 40-11916
- 2-First of all we start creating the data structure we are going to use (instructionBuffers ,ReservationStations,RegisterFiles ,Memory,etc..), after that implemented some thodes to write a txt file in the memory and getting that data of the memory into the instructionbuffer splitted to be able to use it easly ,and then start running the fill (fetch) method that takes every single instruction seperately and apply some conditions on it like (availble slot,number of cycles ,register status availability, etc..) to see if its fits the conditions and to asure that we can start filling the stations that we created ,Calling the excution function is the next step is compares the current program clock and see how many clocks we still need to finish the excution ,after indicating that the excution ends we fill the reodered buffer in start commiting in oreder , in the commit statge we start actualy weriting the data in the memory and the regs .
- 3- we will discuss this part in the evaluation
- 4-the code prints a steps on what to do exactly in each step, here are the snap shots:
 - 1- test_for_regstatus_stallForCycles_filling_allStations_printingthePC

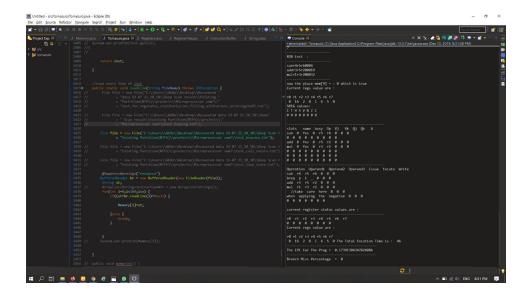


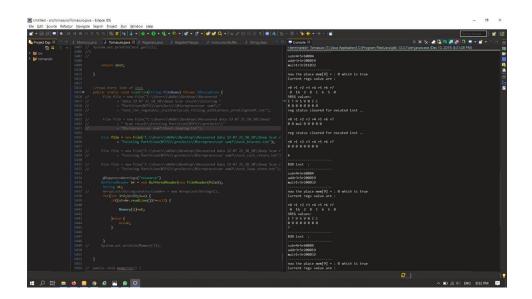
```
| Comparison | Com
```

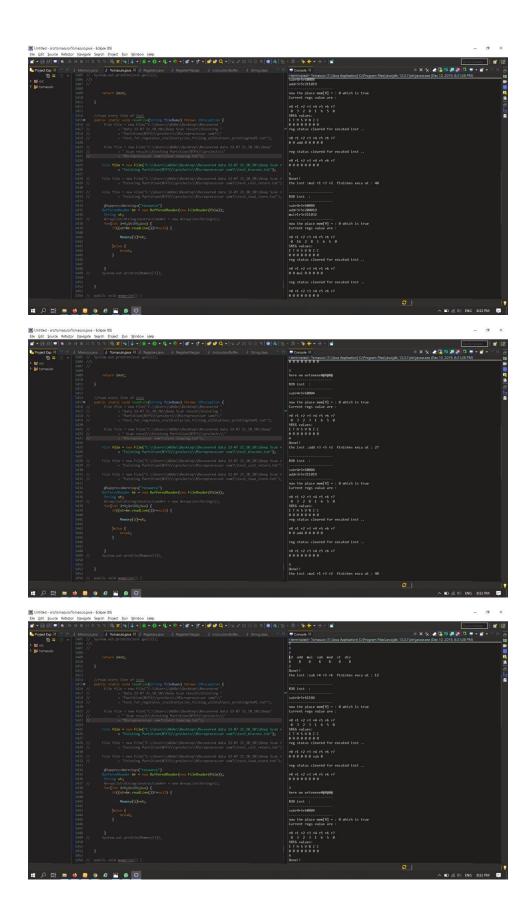
2-infinte looping: of course it could be modified in the code in the text to but a limitation

```
| Comparison | Com
```

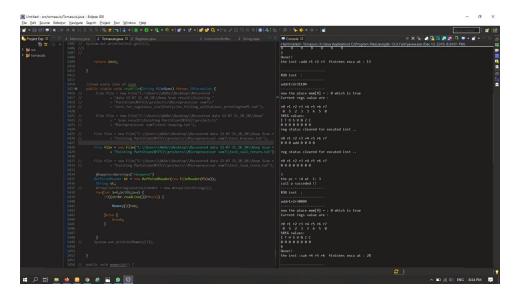
3-branching test

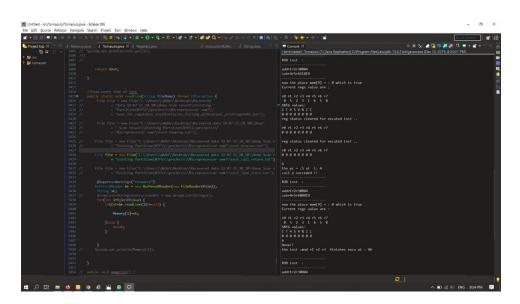






4-call and return





```
Control of the processor (Tennes Appella Park) Popular (Inc. 1987) Popular (Inc. 1987)
```

5- load and store

```
Contract - exponence/Contract place Early Point Brown Words Help

*** Bill *** Size *** Size
```

```
| Comparison | Com
```

5-we did:

(brlo c1,brsh c=0,breq z=1,brmi n=1,add,com,mod,div,ldi,sub,load,store,call ,return,looping ,exit)



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