

## 1) PSEUDO CODE

```
START
READ LECTURES FROM FILE
READ STUDENTS FROM FILE
CHECK OVERLAPPING LECTURES THAT GRADE 1 STUDENTS HAS TAKE
CHECK OVERLAPPING LECTURES THAT GRADE 2 STUDENTS HAS TAKE
EVERY LECTURE THAT OVERLAP WITH 1'ST GRADE
    RANDOM DAY
    RANDOM HOUR
    WHILE THE DAY AND THE HOUR HAS TAKEN
        RANDOM DAY
        RANDOM HOUR
    IF LECTURE GRADE IS 2
        PLACE LECTURE INTO GRADE 2 SCHEDULE
        BLOCK THE TIME IN GRADE 2 SCHEDULE
    BLOCK THE TIME IN GRADE 1 SCHEDULE
EVERY LECTURE THAT OVERLAP WITH 2'ST GRADE
    RANDOM DAY
    RANDOM HOUR
    WHILE THE DAY AND THE HOUR HAS TAKEN
        RANDOM DAY
        RANDOM HOUR
    IF LECTURE GRADE IS 1
        PLACE LECTURE INTO GRADE 1 SCHEDULE
        BLOCK THE TIME IN GRADE 1 SCHEDULE
    BLOCK THE TIME IN GRADE 2 SCHEDULE
EVERY GRADE 1 LECTURE THAT NOT OVERLAPPING WITH ANY OTHER GRADES
    RANDOM DAY
    RANDOM HOUR
    WHILE THE DAY AND THE HOUR HAS TAKEN
        RANDOM DAY
        RANDOM HOUR
    IF LECTURE GRADE IS 1
        PLACE LECTURE INTO GRADE 1 SCHEDULE
        BLOCK THE TIME IN GRADE 1 SCHEDULE

EVERY GRADE 2 LECTURE THAT NOT OVERLAPPING WITH ANY OTHER GRADES
    RANDOM DAY
    RANDOM HOUR
    WHILE THE DAY AND THE HOUR HAS TAKEN
        RANDOM DAY
        RANDOM HOUR
    IF LECTURE GRADE IS 1
        PLACE LECTURE INTO GRADE 2 SCHEDULE
        BLOCK THE TIME IN GRADE 2 SCHEDULE
CREATE SCHEDULE FOR GRADE 1 AND SAVE INTO CSV FILE
CREATE SCHEDULE FOR GRADE 2 AND SAVE INTO CSV FILE
STOP
```

START

READ LECTURES  
AND STUDENTS  
FROM FILE

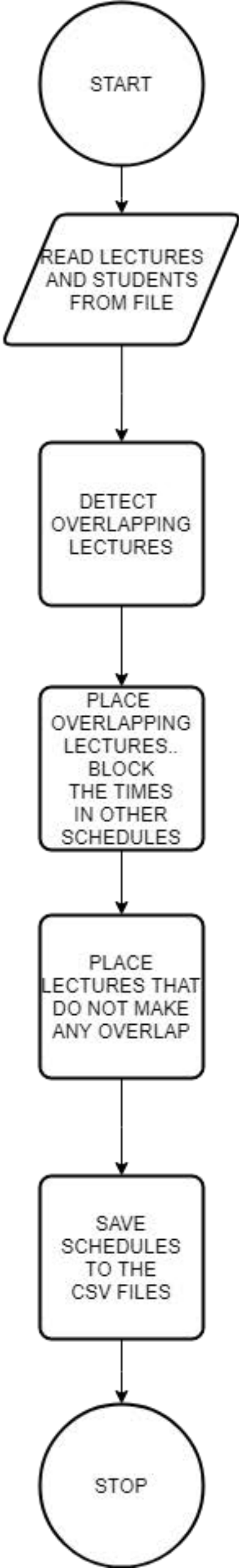
DETECT  
OVERLAPPING  
LECTURES

PLACE  
OVERLAPPING  
LECTURES..  
BLOCK  
THE TIMES  
IN OTHER  
SCHEDULES

PLACE  
LECTURES THAT  
DO NOT MAKE  
ANY OVERLAP

SAVE  
SCHEDULES  
TO THE  
CSV FILES

STOP



### 3) ACCOMPLISHMENTS

- My program can read lectures and students from file.
- My program can create Schedule for every grade.
- In my program, it is imposible to have an overlap in the lecturers of the same grade.
- In the given list, there is no chance to be overlap in the different grade's lectures. If you try with given list, the program always give you Schedules without overlap. But I try to make another list which can be overlap to test my program and the program has passed the test. Also if you want to test, please run PROJECT2v2.
- My program have classes for days, students, lectures and schedules.
- My program has functions.
- I prefer in my program that my program don't uses the function for placing lectures because it breaks the understandability of code.
- My program can save schedules to the csv file so schedules can accessible from excel files. That makes schedules more readable.