Pseudo Code for <u>Selection</u> and <u>Iteration</u>

Problem 1:

- You have been asked to create an application to help students in the math class!
- The program reads a number as a user input
- The program checks the number:
    - If the user enters a number between 1 and 10
        - Use a **for** loop from 0 to 10 to do the calculation (multiplication) and show output
    - Otherwise, show an error message that the number should be between 1 and 10

```
Enter a number    4

   Calculate              Clear

   0 x 4 = 0
   1 x 4 = 4
   2 x 4 = 8
   3 x 4 = 12
   4 x 4 = 16
   5 x 4 = 20
   6 x 4 = 24
   7 x 4 = 28
   8 x 4 = 32
   9 x 4 = 36
   10 x 4 = 40
```
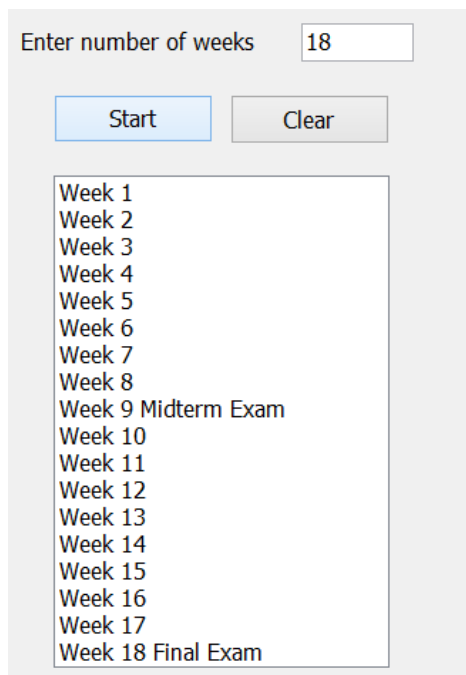
Tasks:
1. Write the Pseudo code
2. Create the application, save as **TimeTables**

Problem 2:

- You have been asked to create an application to help students to check the week of the midterm and the final assessment in any semester
- The program reads the number of weeks in a semester as a user input
- Use a while loop from 1 till the number entered by the user
    - Inside the loop:
        - The program checks if it is the middle of the semester: it is the Midterm week!
        - The program checks if it is the last week of the semester: it is the Final Exam week!
        - Otherwise, the program only displays the week number

Enter number of weeks   18

| Start | Clear |

Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9 Midterm Exam
Week 10
Week 11
Week 12
Week 13
Week 14
Week 15
Week 16
Week 17
Week 18 Final Exam

Tasks:
1. Write the Pseudo code
2. Create the application, save as **SemesterPlanner**