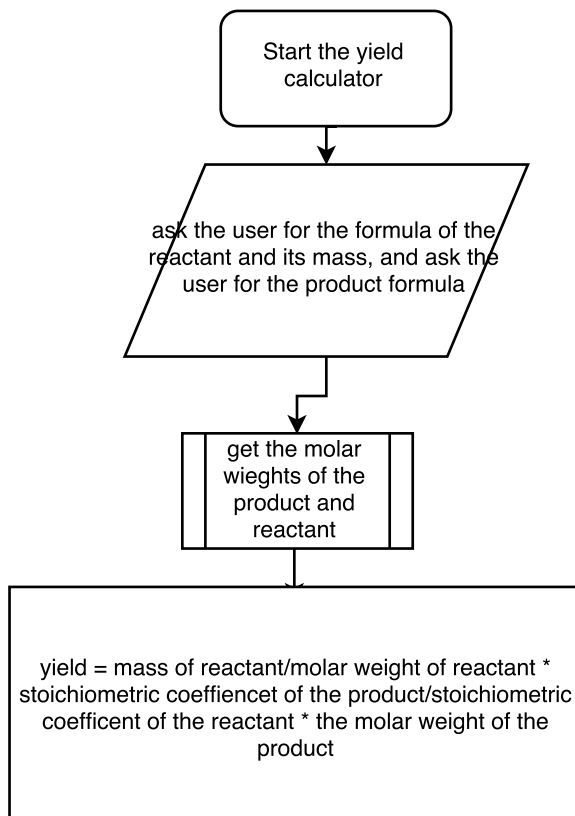
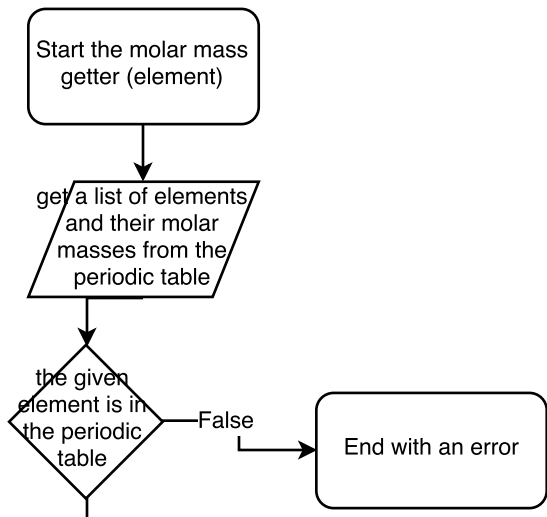
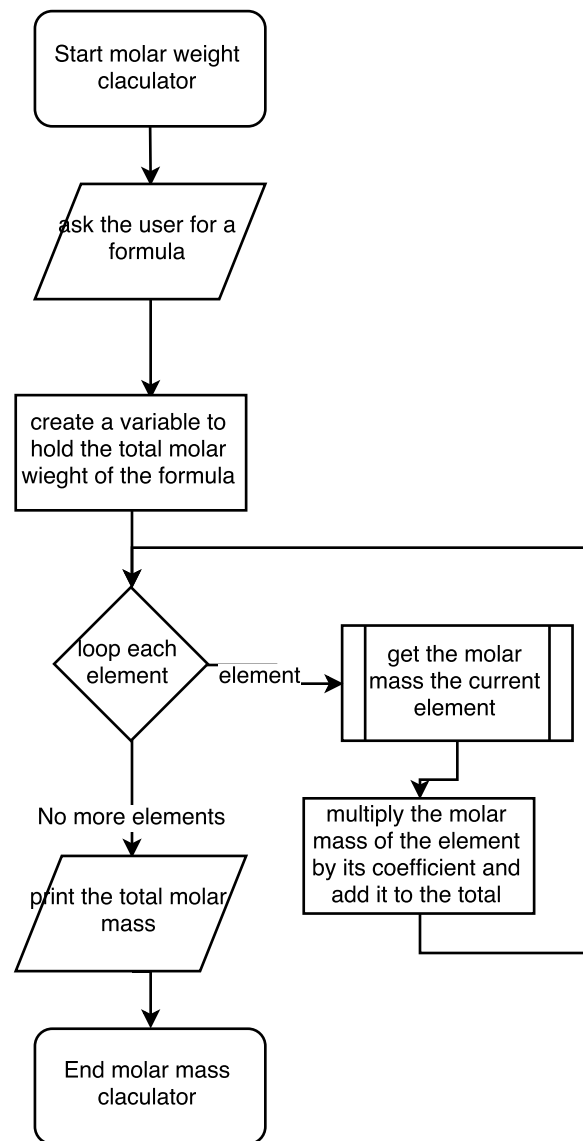
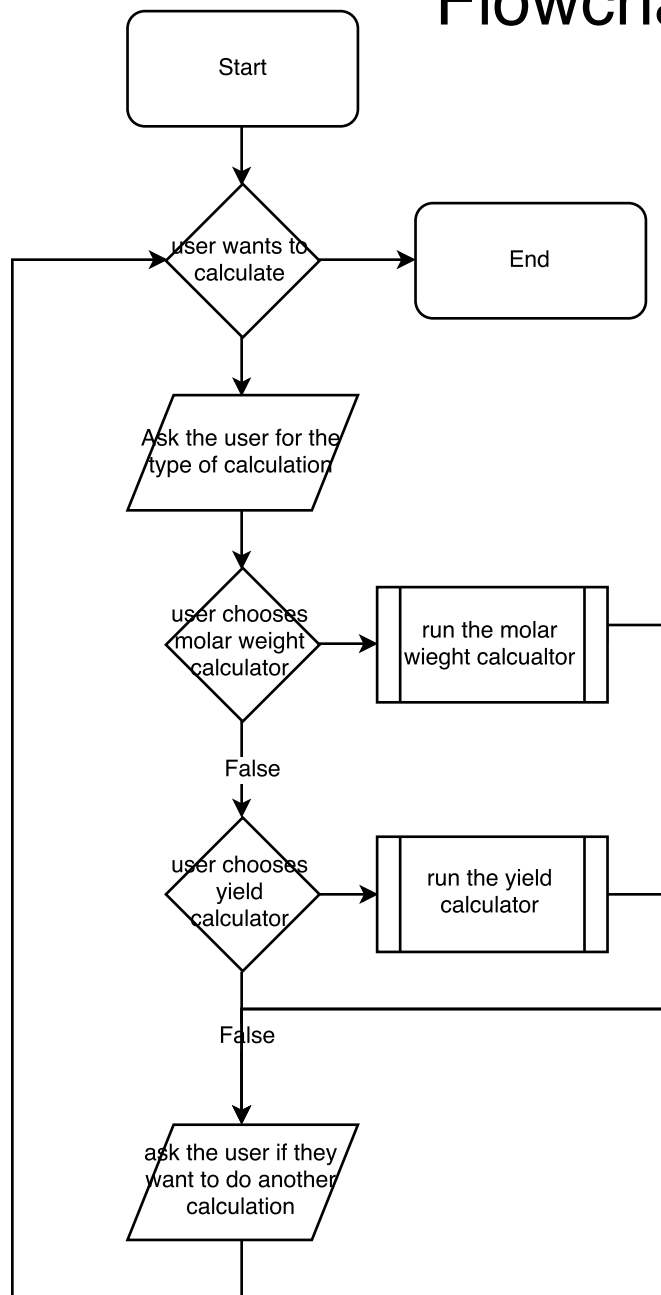
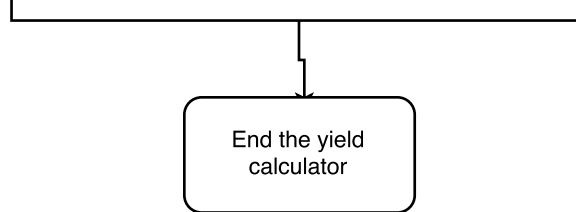
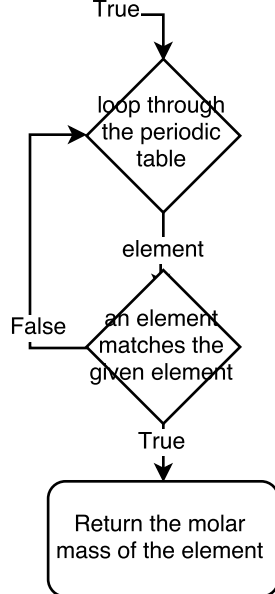


Flowchart





Description

The program performs two main calculations:

1- It calculates the molar weight of a given formula. It calculates the molar weight of a compound with respect to significant figures. It performs this calculation using a periodic table CSV file to obtain the molar masses of elements, and a significant figure calculator to perform the calculations.

2- It calculates the product yield of a reaction with a given reactant mass and formula and a product formula. It calculates the product yield using the periodic table and the significant figures calculator. It does the calculation with the following formula:

$$mr/mmr * scp/scr * mmp$$

where **mr** is the mass of the reactant, **mmr** is the molar mass of the reactant, **scp** is the stoichiometric coefficient of the product, **scr** is the stoichiometric coefficient reactant, **mmp** is the molar mass of the product

The program also does other calculations in the background in order to obtain the required values.