ASSIGNEMENT 2

Use of GA optimization

In this assignment you will program the genetic algorithm that is able to solve the following problem:

You have unknown equation with a certain amount of terms. The number of terms is user defined. The equation must equal to the desired result. The result is also user defined. You can use the following operations: addition, subtraction, multiplication and division. Solve this problem using GA without using the Matlab function for genetic optimization. You can solve this problem in many different ways as long you follow the idea of genetic algorithm optimization principles. For crossover use the roulette wheel.

The input to your program is: desired final result and maximal number of equation terms. At the end of optimization, the program should display the final equation, number of iterations and its result.

For this assignment the report is not necessary. The comments in the code are considered as a report.