### **Unit Transformation**

### **Problem:**

### To solve problems that occur both in student life and in everyday life, where using this program it was possible to solve exercises of different units such as length, mass and volume among others. With what we will learn to solve and also be able to use them as a guide, so the conversions of units help them to relate different metric systems and thereby achieve a link in the magnitude of the data.

### **Overview:**

### We will need to create a program that is efficient and easy to use, where is capable of running on operating systems such as windows and mac as well as being compatible with 32 and 64-bit models, since its main objective is that appropriate units of calculation, specifically of mass, distance and time which the programmer or individual who acquires the executable decides to check its versatility using the tools provided by the transformation units program.

### **Background:**

### Theoretical foundation:

### The unit system is of great importance because it guarantees uniformity and equivalence in measurements, as well as facilitating industrial and commercial technological activities in various nations of the world. (Ramos, 2006)

### A system of units is a consistent, normalized and uniform set of units of measurement, generally defining a few units of measurement from which the rest are derived.

### Derived SI units are expressed algebraically in terms of base units or other derived units. The symbols of the derived units are obtained by mathematical operations of multiplication and division. For example, the derived unit for the amount of molar mass is the kilogram per mole, symbol kg / mole.

### A derived unit can be frequently mentioned in several different ways by using base units and derived units with special names. In practice, with some quantities, it is chosen to use certain units with special names, or combinations of units to facilitate the distinction between quantities of those values ​​that have identical expressions in terms of SI base units. (D’Gregorio, 2002).

### Bibliography

### D’Gregorio, D. R. (2002). SI International System of Units. Journal of Obstetrics and Gynecology of Venezuela, 30-45.

### Ramos, C. (2006). Systems of units. physics, 20.