**Functional description: This MIPS Assembly program simulates the famous Machobane Farming System(MFS) in Practiced in Lesotho**

The system involves the implementation of seasonal cropping, which firstly checks the fertility of the soil and its moisture content. The two will eventually affect our yield content in a manner that too low moisture content in the absence of fertility will reduce our harvest whereas the yield will increase when both moisture content and soil fertility are moderate. It simulates planting in winter and summer using either Intercropping or Relay cropping.

In our case Intercropping is the practice of growing only two crops of different kinds with the intention of harvesting them at the same period of time. Relay cropping is the method of multiple cropping where one crop is seeded and prior to its harvesting period the second one is seeded; therefore, this results into different harvesting times.

We anticipate high yields when the soil fertility and/or moisture content is at least 65%. We calculate our yield using the formula

The code link is [tnkoho/MIPS-Assembly-code (github.com)](https://github.com/tnkoho/MIPS-Assembly-code)