

Main loop program V. 1.0

Descriptions

These instructions are executed continuously and are interrupted by all other functions functioning under interrupt. This loop controls only three events and if they are active launches the corresponding function

Syntax: `loop()`
This function name is requested by the IDE language program of ARDUINO. It indicates the start program instructions

Input parameters: `POWER_ON, Save_PF, TASK0`

Calls: `PowerOn(), Write_Counter_ENC_1(), TaskManager()`

Code:

```
//=====
// STARTING POINT OF THE MAIN PROGRAM
//=====

void loop()
{
  if (!POWER_ON) {PowerOn();} // Test if this is first cycle after the power on
                               // Include instructions executed one time at power on
  if (Save_PF == 1) {Write_Counter_ENC_1();} // Test if there is power down in progress and request
                                               // of save actual actuator position
  if (TASK0) {TaskManager();} // If set launch one cycle of TaskManager function
}
//=====
// END of routine loop (MAIN PROGRAM)
//=====
```

