

SetupV. 1.0

Descriptions

This function contains the initializations functions and the pin mode assignments

Syntax: `setup()`
This function name is request by IDE language program of ARDUINO.

Code:

```
void setup()
{
  Timer1.initialize(500);           // Set interval timer 1 equal at 500 microSec
  Timer1.setPeriod(500);           // Set interval timer 1 equal at 500 microSec
  Timer1.attachInterrupt(ENC_RTC); // Interrupt Timer1. ENC_RTC is the routine launched
  Serial.begin(115200);            // Configure main Serial line1 to 115200 BAUD
  /*
  INPUT SETUP. Configured as INPUT_PULLUP (resistor connected to power internally)
  */
  pinMode(PF_INT, INPUT_PULLUP);
  pinMode(PIN_CH1A, INPUT_PULLUP);
  pinMode(PIN_CH1B, INPUT_PULLUP);

  pinMode(PIN_FWD_IN, INPUT_PULLUP);
  pinMode(PIN_BKW_IN, INPUT_PULLUP);
  pinMode(PIN_LOCAL, INPUT_PULLUP);
  pinMode(PIN_CAL, INPUT_PULLUP);

  pinMode(PIN_FWD_OUT, OUTPUT);
  pinMode(PIN_BKW_OUT, OUTPUT);

  pinMode(PIN_TEST_1, OUTPUT);
}
```