Comsats University Islamabad

Abbottabad Campus

Real Time Embedded System

Lab Task # 2

Submitted by,

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Submitted to,

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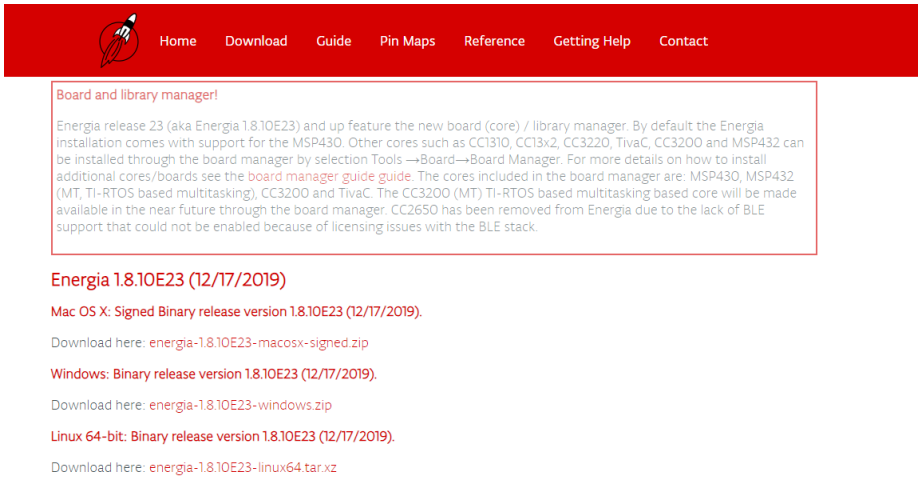
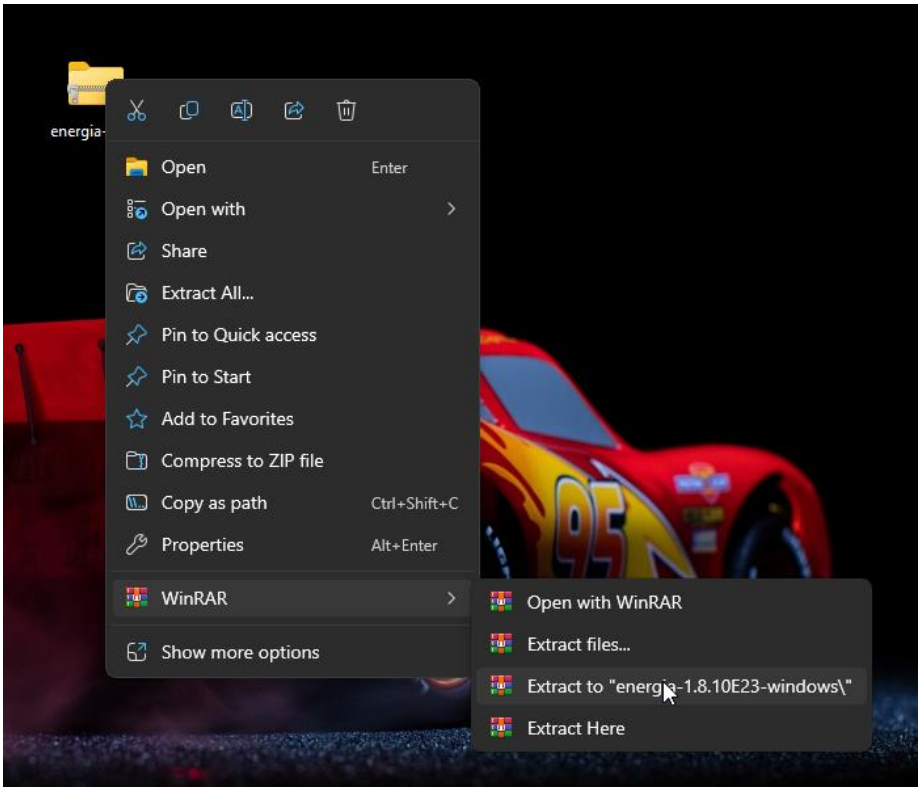
Task 2:

Setting up Multitasking applications in Energia MT

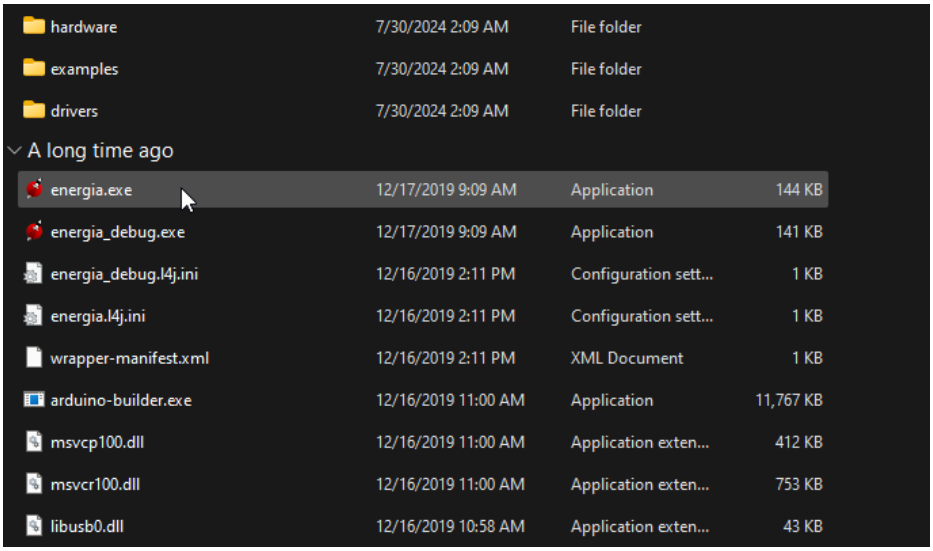
Here is the link: https://energia.nu/download/. You can download this software based on your operating system.



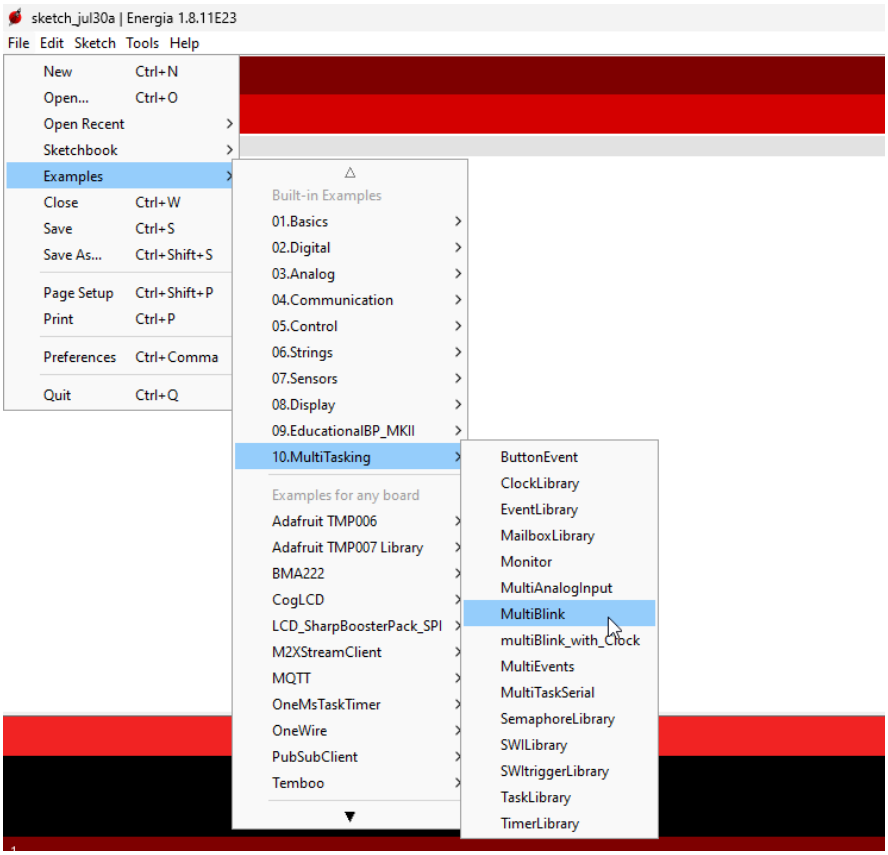
After installing extract the file.



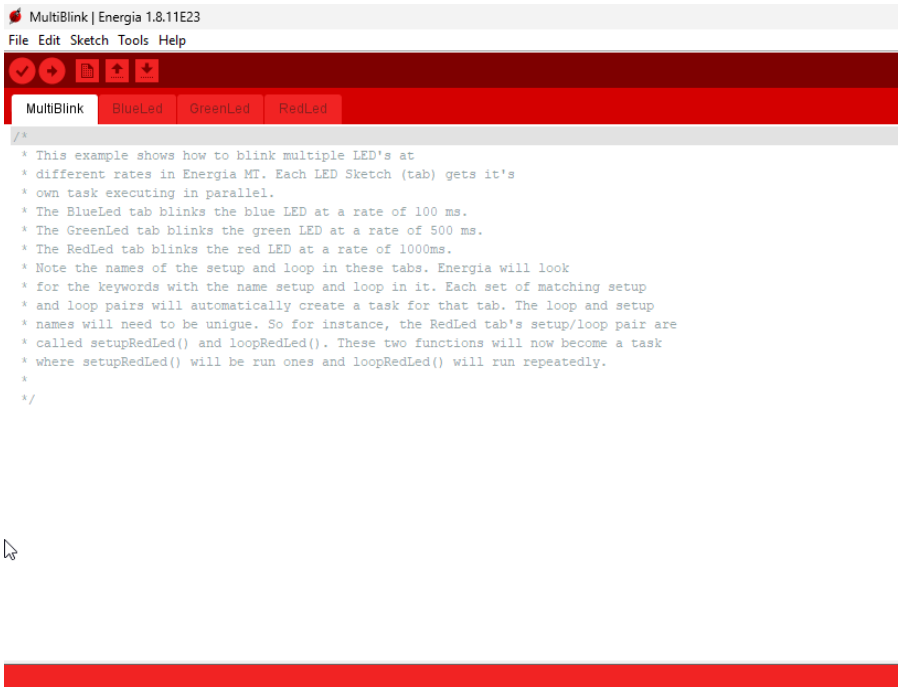
After extracting open the folder and double click on energia.exe.



After the software opens click on File → Examples → MultiTasking → MultiBlink



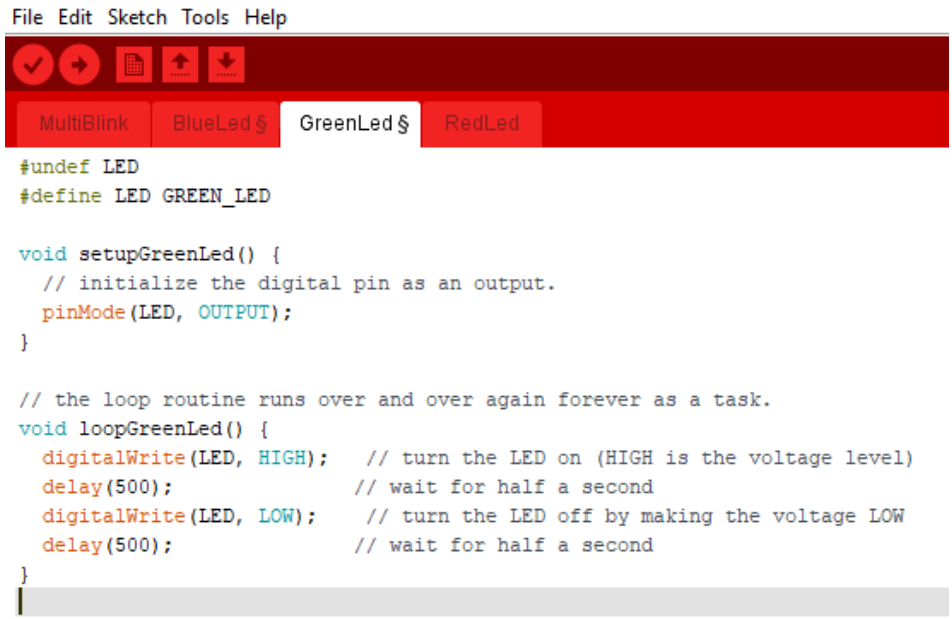
The new window will pop up which contains four tabs as shown



Now you can perform multitasking,

Tab1

Tab2


File Edit Sketch Tools Help
MultiBlink
BlueLed §
GreenLed §
RedLed
#undef LED
#define LED GREEN_LED
void setupGreenLed() {
// initialize the digital pin as an output.
pinMode(LED, OUTPUT);
}
// the loop routine runs over and over again forever as a task.
void loopGreenLed() {
digitalWrite(LED, HIGH); // turn the LED on (HIGH is the voltage level)
delay(500); // wait for half a second
digitalWrite(LED, LOW); // turn the LED off by making the voltage LOW
delay(500); // wait for half a second
}

Tab3


File Edit Sketch Tools Help
MultiBlink
BlueLed §
GreenLed §
RedLed §
#undef LED
#define LED RED_LED
void setupRedLed() {
// initialize the digital pin as an output.
pinMode(LED, OUTPUT);
}
// the loop routine runs over and over again forever as a task.
void loopRedLed() {
digitalWrite(LED, HIGH); // turn the LED on (HIGH is the voltage level)
delay(1000); // wait for a second
digitalWrite(LED, LOW); // turn the LED off by making the voltage LOW
delay(1000); // wait for a second
}