```
void setup()
                                                    // setup runs only once at the begining of your program
                                                    // you can put here initialization and preparation code
                                                  // Define a new custom function
                                                  // The arguments and the return of the function are special
                                                  // integers: long can store large numbers
define adder_function value1 value2
                                                  long adder function(long value1, long value2)
set result ▼ to value1 + value2
                                                    return value1 + value2;
when R clicked
                                                  void loop() // Loop is what will be repeated forever in your program
forever
                                                    index = 0;  // "=" is assignement | "==" is for equality test
  set index ▼ to 0
                                                    for (int i=0; i<10; i++) // start at 0, stop before 10, increment by 1
  repeat 10
                                                      // set something to purple
    set pen color to
                                                    delay(1000); // 1000 milliseconds = 1sec
 wait 1 secs
                                                    if (index == 4) {
        index = 4 then
                                                      // set something to blue
    set pen color to
                                                    delay(2000);
 wait 2 secs
                                                    if (index > 8) {
        index > 8 then
                                                      // set something to green
    set pen color to
                                                    else {
                                                      // set something to red
    set pen color to
  wait 3 secs
  repeat until (index) < 100
                                                    while (index < 100)
    change index by 1
                                                      index++; // this is the short way to write: index = index + 1;
    set r to pick random 100 to 200
                                                      long r = random(100, 200); // r is a new variable that can hold large numbers
                                                      // we also get a second new variable to store the result.
    adder_function 🕝 (-100)
                                                      long result = adder function(r, -100);
                                                  } // end of loop (forever in scratch)
```

int index;

// Do not forget to declare the variable. Here we say index is an Integer variable

// variables outside setup() and loop() are visible by the whole program