Interpots: and global definitions-

O guard-routine-open &
ready = 0; running = 0;
guard-open = 1;
guard-tault=1; }

\*guard

@ guard-routine close {
 guard-open = 0; }

3 stoped-routine {
ready = 0; running = 0;
stopped = 1; }

9 Not-stopped-routine € stoped =0; {

Temp high routire {

ready = 0; running = 0;

temp high - fault = 1;

temp high = 1; }

count = 0;

6 Temp-nor-high { temp-high =0; }

F stort {
running=1; }

(8) count = 0;

(10) count 3 = 0

1 count 2 = 0;

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main function
   count = 0; count 4 = 0; count 3 = 0;
1) While ( ready == 0) } // Sub-loop for when now ready
   LED 2 = 0;
   if ( count == 0) }
     time Book millis;
     count ++ ; }
   if (1+ime_start - millis > 0.55) { // flashing
        LED1 = ! LED1;
        time-start = millis; }
   if (temp-highfout == 1) { LED4 = 1;
        if ( count 2 = = 0) }
          time Start 2 = millis; }
       if ( time start2 - millis / > 0.55) }
          fant temp-high-fault = 0;
           LED4=0; 3
                        _ 22 count4== 0
 if ( guard-foult == 1) { // only white after running
     LED3=1;
     it (count 3 = = 0) }
         timestatt 3= millis, &
         count 3 = 1; {
    it ( I timestar 3 -millis / > 0.53) }
           guard-fault = 0; }
           county =1; }
 it (quard-open = 0 gol temp high=0 82 stop=0) { ready = 1;2
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To summarize s
loop () sy when the machine not ready we run this loop
       While ( ready==0) {
        LE D2 = 0;
          it (0.55 has passed since start of loop) } a flashing
               LED 1 = [LED1;
                reset-timers ; }
           it (fault of high temp) { // fault alarm (temp)
              LEDY=1;
                it (time-passed since first run of it function >0.5)
                 } LED4=0j
                     toult high temp = 0; }
         it (fault of guardopen made motor chanse state) }
               LED3= 1;
```

# ( count 3 = = 0) {

# ( time-passed > 0.55) {

# fault-guard = 0;

LED 3=0; 3

it ( no issue (guard, tem, and stop button)) } 7 /ready=1; 3 not ready 100p. while (ready =1)} LED 1=1; while (running=122 recody=1) } LEDI =1;

