|  |  |  |
| --- | --- | --- |
| ChengHao\_MEC733\_W2022\_Lab3\_Task1.ino | ChengHao\_MEC733\_W2022\_Lab3\_Task1.h | ChengHao\_MEC733\_W2022\_Lab3\_Task1.s |
| int main ()  {  Port\_D\_init();  Loop\_Button\_LED\_Loop();  return 0;  } | extern "C" void Port\_D\_init(void);  extern "C" void Loop\_Button\_LED\_Loop(void); | Delay:  LDI R25, 0xFF  LDI R24, 0XFF  Delay\_Loop:  nop  nop  SBIW R24, 1  BRNE Delay\_Loop  RET  Interval:  LDI R16, 41  Delay\_Interval\_Loop:  call Delay  SUBI R16, 1  BRNE Delay\_Interval\_Loop  RET  .global Port\_D\_init  Port\_D\_init:  LDI R16, 0b00010000  OUT 0x0A, R16  LDI R16, 0b00000010  OUT 0x0B, R16  .global Loop\_Button\_LED\_Loop  Loop\_Button\_LED\_Loop:  Start: IN R16, 0x09  ANDI R16, 0b00000010  CPI R16, 0b00000000  BREQ Flash  JMP Start  Flash: SBI 0x0B, 4  CALL Interval  CBI 0x0B, 4  CALL Interval  JMP Start  RET |