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| ChengHao\_MEC733\_W2022\_Lab3\_Task2.ino | ChengHao\_MEC733\_W2022\_Lab3\_Task2.h | ChengHao\_MEC733\_W2022\_Lab3\_Task2.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\_1:  LDI R16, 20  Delay\_Interval\_1\_Loop:  call Delay  SUBI R16, 1  BRNE Delay\_Interval\_1\_Loop  RET  Interval\_2:  LDI R16, 20  Delay\_Interval\_2\_Loop:  call Delay  SUBI R16, 1  BRNE Delay\_Interval\_2\_Loop  RET  Interval\_3:  LDI R16, 20  Delay\_Interval\_3\_Loop:  call Delay  SUBI R16, 1  BRNE Delay\_Interval\_3\_Loop  RET  .global Port\_D\_init  Port\_D\_init: LDI R16, 0b01110000  OUT 0x0A, R16  LDI R16, 0b00001110  OUT 0x0B, R16  .global Loop\_Button\_LED\_Loop  Loop\_Button\_LED\_Loop:  Start: IN R16, 0x09  ANDI R16, 0b00000010  CPI R16, 0b00000000  BREQ Flash1  IN R17, 0x09  ANDI R17, 0b00000100  CPI R17, 0b00000000  BREQ Flash2  IN R18, 0x09  ANDI R18, 0b00001000  CPI R18, 0b00000000  BREQ Flash3  JMP Start  Flash1: SBI 0x0B, 4  call Interval\_1  CBI 0x0B, 4  call Interval\_1  JMP Start  RET  Flash2: SBI 0x0B, 5  call Interval\_2  CBI 0x0B, 5  call Interval\_2  JMP Start  RET  Flash3: SBI 0x0B, 6  call Interval\_3  CBI 0x0B, 6  call Interval\_3  JMP Start  RET |