```
* Test Program 3.c
* Created: 2/8/2020 3:15:20 PM
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#include <avr/io.h>
void ADC_init(void)
{
   ADMUX |= (1<<REFS0) | (1<<MUX0) | (1<<MUX2);
   ADCSRA |= (1<<ADEN) | (1<<ADESO) | (1<<ADPSO) | (1<<ADPSO);
}
int main(void) {
   uint16_t adc;
   DDRB = 0b00000001;
   PORTB = 0b00000000;
   while (1) {
       ADC_init();
       while (ADCSRA & 0b01000000) {
           PORTB = 0b00000001;
       adc = ADC;
   }
}
```