

ADC Controller

```
void setup() {  
  
    Serial.begin(9600);  
  
    // Set the prescaler value between 80-320 (50kHz to 200kHz)  
    ADCSRA |= (1<<ADPS2 | 1<<ADPS1 | 1<<ADPS0); // Prescaler 128  
    //ADMUX |= 1<<ADLAR; // For the left adjustment of the result  
    ADMUX |= 1<<MUX1; // Set the ADC pin 2 or A2  
    ADMUX |= 1<<REFS0; // Voltage reference from internal VCC  
    ADCSRA |= 1<<ADIE; // Enable the ADC Interrupt  
  
    ADCSRA |= 1<<ADEN; // Turn on ADC  
  
    ADCSRA |= 1<<ADSC; // Start the first conversion  
  
while(1){  
}  
  
ISR(ADC_vect){  
    uint16_t tenBitValue;  
  
    // Assign of 10 bit value into tenBitValue variable  
    tenBitValue = ADCL; // assign of ADCL 8 bit value  
    tenBitValue |= ADCH<<8; // assign of ADCH 2 bit value  
    Serial.println(tenBitValue);  
  
    ADCSRA |= 1<<ADSC; // The next conversions  
}
```

