```
#include LPC214x.h

#define ADC0 1  24

#define VREF 3.3

int main(void)
{

int i,j;
int unsigned long result;
unsigned char key;
PINSEL1 = (124); INITIALIZE ADC0 CH0 AD0.1 (p0.28)
UartInit();
AD0CR = 0X01210302;
 Channel 0, Clock 4Mhz, Burst Mode,10 bit,PDN = 1,

while(1)
  {
      while(!(AD0DR1 & 0X80000000));  wait for conversion

      result = ((AD0DR16) & 0x3ff);
      printf(nVoltage on AD0.1 = %dmVn,(int)( resultVREF ));
      for(j=9;j=0;j--)
      {
      key=(resultj)&0x001;  fetching MSB to LSB bits at a time
      UART_PutChar(key+0x30); conversion to ASCII
      }
       for(i=0;i10000;i++)
            for(j=0;j5000;j++);
      }

      return 0;
}
```