```
/** VARIABLE DECLARATION **/
bit tx_flag=0;
/** USART FUNCTIONS DECLARATION **/
void tx(unsigned char);
void USART_Transmit(unsigned char flash *);
void USART_int(int);
void USART_float(float);
// USART Transmitter interrupt service routine
interrupt [USART_TXC] void usart_tx_isr(void)
{
  tx_flag=1;
}
/** TRANSMITT CHARACTER TO HYPER TERMINAL **/
void tx(unsigned char ch)
{
       UDR0=ch;
       tx_flag=0;
       while(!tx_flag);
       tx_flag=0;
}
/** TRANSMITT STRING TO HYPER TERMINAL **/
void USART_Transmit(unsigned char flash *s)
```

```
{
       while(*s)
               tx(*s++);
}
/** TRANSMIT INTEGER TO HYPER TERMINAL **/
void USART_int(int n)
{
       unsigned char c[6];
       unsigned int i=0;
       if(n==0)
       tx('0');
       while(n>0)
       {
       c[i++]=(n%10)+48;
       n/=10;
       }
       while(i-->=1)
       tx(c[i]);
}
/**USART FLOAT FUNCTION**/
void USART_float(float f)
{
       int n;
       float temp;
       if(f<0.0)
```

```
{
    tx('-');
    f=-f;
}
n=f;
USART_int(n);
tx('.');
temp=f-n;
if(temp>=0.00&&temp<=0.09)
tx('0');
f=temp*100;
n=f;
USART_int(n);
}</pre>
```