```c
//to use the macro 'DELAY'.
# include "discover_functions.h"

/*function to print and set the mode of printing.
 modes are selected as follows:
 0-> 32 char normal.
 1-> 24 char normal.
 8-> 32 char bold.
 9-> 24 char bold.*/
void tprint(char* toprint,int mode);

/*for giving any command other than mode selection,use the same procedure as
used in mode selection,
this printer does not detects ascii values,u have change the format as done
below.*/

// this printing does take little extra time,due to delays given,but don't
remove the delays.

void tprint(char* toprint,int mode)
{
int i,j,k,m;
i=0;k=0; j=0;
char mode1[3];
//for escape.
mode1[0]=27;
//for '!'.
mode1[1]=33;
// for mode.
mode1[2]=mode;
//setting the mode for printing.
for(k=0;k<3;k++)
{   mode1[k]=254-(4*mode1[k]);
      while(USART_GetFlagStatus(USART1, USART_FLAG_TXE) == 0);//check Tx_empty
flag
                    { USART_SendData(USART1,mode1[k]);
                     DELAY;
                     }
}
DELAY;
DELAY;
// printing the user input.
for(i=0;toprint[i]!='\0';i++)
{

      if(toprint[i]<64)
      {
            toprint[i]=254-(4*toprint[i]);
            while(j<=i)
            {
            while(USART_GetFlagStatus(USART1, USART_FLAG_TXE) == 0);//check
Tx_empty flag
                        USART_SendData(USART1,toprint[j++]);
            }
            DELAY;
      }
      else
    toprint[i]=255-(2*toprint[i]);
}
while(j<=i)
{while(USART_GetFlagStatus(USART1, USART_FLAG_TXE) == 0);//check Tx_empty flag
USART_SendData(USART1,toprint[j++]);}
```

}