

```

void main(void)
{
    // Initialize the device
    SYSTEM_Initialize();
    int i, intnumber;
    clearPuTTY();
    char string[]="hello", string2[20]="", inputstring[51],outputstring[51],reversefirst[51],reverselast[51];
    char FirstName[20], LastName[20], capfirst[51],caplast[51];
    char *token;
    /*
    printf("\n\r the original string is {%s} ",string);
    switch_Caps(string,-32);
    printf("and capitalized is {%s}",string);

    strInvertCaps(string,string2);
    printf("string 1 of {%s} is inverted caps to {%s}",string,string2);
    */

    while (1)
    {
        // Add your application code
        //clearPuTTY();
        printf("\n\r\n\rEnter Your Name:\n\r>");
        ReadNUART2(inputstring,20);
        //intnumber=atoi(inputstring);

        token=strtok(inputstring, " ");
        if(token != NULL) strcpy(FirstName,token);
        token=strtok(NULL, "\0");
        if(token != NULL) strcpy(LastName,token);

        printf("\n\rFirst Name: %s\n\rLast Name: %s",FirstName,LastName);
        Caps(FirstName,capfirst);
        Caps(LastName,caplast);
        printf("\n\rFirst Name: %s\n\rLast Name: %s",capfirst,caplast);
        Reverse_String(capfirst,reversefirst);
        Reverse_String(caplast,reverselast);
        printf("\n\rReversed: %s %s",reversefirst,reverselast);

        wait_for_ENTER();
    }
}

```

```
void Reverse_String(char string_in[], char string_out[])
```

```
{  
    int i, length= strlen(string_in);  
    for(i=0;i<length;i++)  
    {  
        string_out[i]=string_in[length-1-i];  
    }  
    string_out[length]= '\0'; // turn array into string  
    return;  
}
```

```
void Caps(char string_in[], char string_out[])
```

```
{  
    int i, length=strlen(string_in);  
    for(i=0;i<length;i++)  
    {  
        if(islower(string_in[i]))  
        {  
            string_out[i]=toupper(string_in[i]);  
        }  
        else  
        {  
            string_out[i]=string_in[i];  
        }  
    }  
    string_out[length]= '\0'; // turn array into string  
    return;  
}
```

```
Enter Your Name:  
>manmohan badhesa  
First Name: manmohan  
Last Name: badhesa  
First Name: MANMOHAN  
Last Name: BADHESA  
Reversed: NAHOMNAM ASEHDAB
```

```
Enter Your Name:  
>mike coombes  
First Name: mike  
Last Name: coombes  
First Name: MIKE  
Last Name: COOMBES  
Reversed: EKIM SEBMOOC
```

```
Enter Your Name:  
>donald trump  
First Name: donald  
Last Name: trump  
First Name: DONALD  
Last Name: TRUMP  
Reversed: DLANOD PMURT
```

```
Enter Your Name:  
>albert einstein  
First Name: albert  
Last Name: einstein  
First Name: ALBERT  
Last Name: EINSTEIN  
Reversed: TREBLA NIETSNIE
```

```
Enter Your Name:  
>Neil Bohr  
First Name: Neil  
Last Name: Bohr  
First Name: NEIL  
Last Name: BOHR  
Reversed: LIEN RHOB
```