



```
#include<pic.h>
#define _XTAL_FREQ 20000000
```

```
void UART_Init()
{
    TXSTA = 0x24; // Enable Transmit
    RCSTA = 0x90; // Enable Serial Port
    SPBRG = 129; // Baud Rate 9600
}
```

```
void UART_Send(char data)
{
    while(!TXIF); // Wait for TX buffer empty
    TXREG = data;
}
```

```
char UART_Receive()
{
    while(!RCIF); // Wait until data is received
    return RCREG;
}
```

```
void main()
{
    TRISB = 0x00; // Set PORTB as output
    TRISC = 0x80; // RX as input
    UART_Init();
}
```

```
while(1)
{
    char command = UART_Receive(); // Receive voice command

    if(command == '1') // If "Turn ON" command detected
        RB0 = 1;      // Turn ON LED
    else if(command == '0') // If "Turn OFF" command detected
        RB0 = 0;      // Turn OFF LED
}
```