

Cutebot:

```
from microbit import *  
from cutebot import *  
import radio
```

```
ct = CUTEBOT()
```

```
radio.on()
```

```
x = 7
```

```
help=0
```

```
radio.config(group=x)
```

```
z=0
```

```
received_str = ""
```

```
temp_str = ""
```

```
s = 0
```

```
move = 40
```

```
d=1
```

```
l=1
```

```
w = ""
```

```
def listen_n_receive():
```

```
    global received_str, temp_str
```

```
    received_str = str(radio.receive())
```

```
def speed():
```

```
    global received_str, s, move
```

```
    if received_str == "s":
```

```
        s += 1
```

```
    if s == 3:
```

```
        s = 0
```

```
    if s == 0:
```

```
        move = 40
```

```
    elif s == 1:
```

```
        move = 70
```

```
    elif s == 2:
```

```
        move = 100
```

```

def moves():
    global received_str, s, move
    if received_str == "u":
        ct.set_car_light(left, 235, 143, 52)
        ct.set_car_light(right, 235, 143, 52)
        ct.set_motors_speed(move, move)
    elif received_str == "d":
        ct.set_car_light(left, 52, 235, 229)
        ct.set_car_light(right, 52, 235, 229)
        ct.set_motors_speed(-move, -move)
    elif received_str == "r":
        ct.set_car_light(right, 255, 40, 0)
        ct.set_motors_speed(move, -move)
    elif received_str == "l":
        ct.set_car_light(left, 255, 40, 0)
        ct.set_motors_speed(-move, move)
    else:
        sleep(75)
        ct.set_motors_speed(0, 0)
        ct.set_car_light(right, 0, 0, 0)
        ct.set_car_light(left, 0, 0, 0)

```

```

def button():
    global x
    if button_a.get_presses():
        x -= 1
        if x == 0:
            x = 1
        radio.config(group=x)
        display.show(x)
        sleep(500)
        display.clear
    if button_b.get_presses():
        x += 1
        if x == 21:
            x = 20
        radio.config(group=x)

```

```
display.show(x)
sleep(500)
display.clear
```

```
def led():
    global x,received_str
    if received_str == "u":
        display.show(Image.ARROW_N)
    elif received_str == "d":
        display.show(Image.ARROW_S)
    elif received_str == "l":
        display.show(Image.ARROW_E)
    elif received_str == "r":
        display.show(Image.ARROW_W)
    elif received_str == "x":
        display.show(Image("90009:"
                           "09090:"
                           "00900:"
                           "09090:"
                           "90009"))
```

```
def distance():
    global x, z, move
    times = 0
    distance_cm = str(ct.get_distance(0))
    if float(distance_cm) <= 20 and z==0:
        ct.set_motors_speed(0,0)
        radio.send('y')
        display.scroll(Image("90009:"
                             "09090:"
                             "00900:"
                             "09090:"
                             "90009"))
        z=1
        times += 1
    elif float(distance_cm) > 20:
        radio.send('n')
```

```

    z=0
    if times == 1:
        display.show(x)

def logo():
    global received_str, i, help
    if received_str == "logo":
        while help != 5:
            ct.set_car_light(left,0,255,0)
            ct.set_car_light(right,0,255,0)
            sleep(100)
            ct.set_car_light(left,0,0,0)
            ct.set_car_light(right,0,0,0)
            sleep(100)
            help += 1
        elif received_str!="logo":
            help=0
        elif received_str == "stop":
            return

def light():
    light_level = 0
    light_level = display.read_light_level()
    if light_level <= 5:
        radio.send("low")
        ct.set_car_light(right, 255, 255, 255)
        ct.set_car_light(left, 255, 255, 255)
    elif light_level > 5:
        radio.send("high")
        ct.set_car_light(right, 0, 0, 0)
        ct.set_car_light(left, 0, 0, 0)

def change_radio():
    global received_str,x,w
    w = received_str
    if received_str.isdigit() == True:
        x = int(received_str)

```

```

received_str = ""
radio.config(group =x)
display.scroll(x)
elif received_str == "a" or received_str == "b" or received_str == "c" or received_str == "o" or
received_str == "e" or received_str == "f" or received_str == "g" or received_str == "h" or
received_str == "i" or received_str == "j" or received_str == "k":
    if w == "a":
        x = 11
    elif w == "b":
        x = 12
    elif w == "c":
        x = 13
    elif w == "o":
        x = 14
    elif w == "e":
        x = 15
    elif w == "f":
        x = 16
    elif w == "g":
        x = 17
    elif w == "h":
        x = 18
    elif w == "i":
        x = 19
    elif w == "j":
        x = 20
    elif w == "k":
        x = 10
    received_str = ""
    radio.config(group =x)
    display.scroll(x)
else:
    return

def shut():
    global received_str, l
    if received_str == "turn off":

```

```
radio.off()
```

```
l = 0
```

```
while l==1:
```

```
    listen_n_receive()
```

```
    speed()
```

```
    moves()
```

```
    button()
```

```
    change_radio()
```

```
    led()
```

```
    light()
```

```
    logo()
```

```
    distance()
```

```
    shut()
```

```
display.clear()
```