

Code Sample A

```
from codex import *
from time import sleep

delay = 1

display.show("Hold Button Up")
audio.mp3("sounds/up")
sleep(delay)
pressed = buttons.is_pressed(BTN_U)
if pressed:
    pixels.set(0, GREEN)
else:
    pixels.set(0, RED)

display.show("Hold Button Down")
audio.mp3("sounds/down")
sleep(delay)
pressed = buttons.is_pressed(BTN_D)
if pressed:
    pixels.set(1, GREEN)
else:
    pixels.set(1, RED)
```

Code Sample B

```
delay = 1.0

pressed = buttons.is_pressed(BTN_A)
if pressed:
    pixels.set(0, RED)
    pixels.set(1, RED)
    sleep(delay)
    pixels.set(0, BLACK)
    pixels.set(1, BLACK)
    sleep(delay)

    pixels.set(0, RED)
    pixels.set(1, RED)
    sleep(delay)
    pixels.set(0, BLACK)
    pixels.set(1, BLACK)
    sleep(delay)
```

Code Sample C

```
display.show("Press a button")
sleep(3)
pressed1 = buttons.was_pressed(BTN_B)
pressed2 = buttons.was_pressed(BTN_A)
if pressed1:
    pixels.set(2, RED)
    sleep(0.5)
    pixels.set(2, BLACK)
    sleep(0.5)
else:
    pixels.set(3, WHITE)

if pressed2:
    pixels.set(1, RED)
    sleep(0.5)
    pixels.set(1, BLACK)
    sleep(0.5)
else:
    pixels.set(0, WHITE)
```

Code Sample D

```
display.print("Press a button")
display.print("for a surprise!")
sleep(3)
if buttons.is_pressed(BTN_L):
    display.show(pics.HEART_SMALL)
if buttons.is_pressed(BTN_U):
    pixels.set(0, RED)
    pixels.set(1, BLUE)
if buttons.is_pressed(BTN_D):
    audio.mp3('sounds/down')
    display.show(pics.ARROW_S)
if buttons.is_pressed(BTN_R):
    display.show(pics.TIARA)
    pixels.set(0,PURPLE)
    pixels.set(1,PURPLE)
    pixels.set(2,PURPLE)
    pixels.set(3,PURPLE)
```

Code Sample E

```
delay = 1

color = RED
pixels.set(0, color)
pixels.set(1, color)
pixels.set(2, color)
pixels.set(3, color)
sleep(delay)

color = YELLOW
pixels.set(0, color)
pixels.set(1, color)
pixels.set(2, color)
pixels.set(3, color)
sleep(delay)
```

Code Sample F

```
display.show("enjoy the tunes")

red = randrange(256)
green = randrange(256)
blue = randrange(256)
color = (red, green, blue)

display.show(pics.TIARA)
audio.mp3("sounds/welcome")

red = randrange(256)
green = randrange(256)
blue = randrange(256)
color = (red, green, blue)

display.show(pics.TSHIRT)
audio.mp3("sounds/bohemia")
```