

```

'
=====
'
' File..... Jolly the Clown
' Purpose... Activate clown prop and two sound files
' Author...
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' Started... September 29, 2009
' Updated...
'
' {$STAMP BS1}
' {$PBASIC 1.0}
'
=====

```

' -----[Program Description]-----

' -----[Revision History]-----

' -----[I/O Definitions]-----

```

SYMBOL SFX3      = PIN5      ' V+ -> POS, OUT5 --> 3
SYMBOL SFX2      = PIN4      ' V+ -> POS, OUT4 --> 2
SYMBOL SFX1      = PIN3      ' V+ -> POS, OUT3 --> 1

```

```

SYMBOL PIR3      = PIN2
SYMBOL PIR2      = PIN1
SYMBOL PIR1      = PIN0

```

' -----[Constants]-----

```

SYMBOL IsOn      = 1          ' for active-high in/out
SYMBOL IsOff     = 0

```

```

SYMBOL Yes       = 1
SYMBOL No        = 0

```

' -----[Variables]-----

```

SYMBOL sensors   = B0

```

```
SYMBOL zone1      = BIT0      ' PIR #1
SYMBOL zone2      = BIT1      ' PIR #2
SYMBOL zone3      = BIT2      ' PIR #3
```

```
SYMBOL idx        = B1
```

```
SYMBOL timer      = W5
```

```
' -----[ Initialization ]-----
```

```
Power_Up:
```

```
  GOTO Show_Delay      ' let PIRs warm up
```

```
Reset:
```

```
  PINS = %00000000    ' clear all
```

```
  DIRS = %11111000    ' set output pins (1s)
```

```
' -----[ Program Code ]-----
```

```
Main1:
```

```
  sensors = %00000001    ' arm all
```

```
  FOR idx = 1 TO 20
```

```
    PAUSE 5
```

```
    sensors = sensors & PINS    ' scan inputs
```

```
  NEXT
```

```
  timer = timer + 1    ' update fail-safe timer    ' check PIRs
```

```
  IF zone1 = IsOff THEN Main1    ' is #1 active?
```

```
  SFX1 = IsOn    ' start audio #1
```

```
  PAUSE 1000
```

```
  SFX1 = IsOff
```

```
  PAUSE 10000    ' zone delay
```

```
  GOSUB RESET2
```

```
Main2:
```

```
  timer = 0
```

```
Check2:
```

```
  sensors = %00000010    ' arm all
```

```
  FOR idx = 1 TO 20
```

```
    PAUSE 5
```

```
    sensors = sensors & PINS    ' scan inputs
```

```
  NEXT
```

```
  timer = timer + 1    ' update fail-safe timer
```

```
IF timer = 900 THEN Reset          ' reset after 90s
```

```
IF zone2 = IsOff THEN Check2
```

```
  SFX2 = IsOn                      ' start audio
```

```
  PAUSE 1000
```

```
  SFX2 = IsOff
```

```
  PAUSE 50000                      ' zone delay
```

```
GOSUB RESET2
```

```
Main3:
```

```
  timer = 0
```

```
Check3:
```

```
  sensors = %00000100             ' arm all
```

```
  FOR idx = 1 TO 20
```

```
    PAUSE 5
```

```
    sensors = sensors & PINS       ' scan inputs
```

```
  NEXT
```

```
  timer = timer + 1                ' update fail-safe timer
```

```
  IF timer = 900 THEN Reset
```

```
IF zone3 = IsOff THEN Main3
```

```
  SFX3 = IsOn
```

```
  PAUSE 1000
```

```
  SFX3 = IsOff
```

```
  PAUSE 20000
```

```
  GOTO Reset
```

```
Show_Delay:
```

```
  PAUSE 30000
```

```
  GOTO Reset
```

```
' -----[ Subroutines ]-----
```

```
Reset2:
```

```
  PINS = %00000000                ' clear all
```

```
  DIRS = %11111000                ' set output pins (1s)
```

```
  RETURN
```

```
' -----[ User Data ]-----
```