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```
Help on BaseOverlay in module pynq.overlays.base.base:
<pynq.overlays.base.base.BaseOverlay object>
    Default documentation for overlay base.bit. The following
    attributes are available on this overlay:
    IP Blocks
                        : pynq.lib.axigpio.AxiGPIO
    switches gpio
    btns_gpio
                       : pynq.lib.axigpio.AxiGPIO
    video/hdmi_in/frontend/axi_gpio_hdmiin : pynq.lib.axigpio.AxiGPIO
    video/hdmi_out/frontend/hdmi_out_hpd_video : pynq.lib.axigpio.AxiGPIO
                        : pynq.lib.axigpio.AxiGPIO
    rgbleds gpio
    leds gpio
                        : pynq.lib.axigpio.AxiGPIO
    system_interrupts : pynq.overlay.DefaultIP
    video/axi_vdma : pynq.lib.video.dma.AxiVDMA
    audio codec ctrl 0 : pynq.lib.audio.AudioADAU1761
    video/hdmi_out/frontend/axi_dynclk : pynq.overlay.DefaultIP
    video/hdmi_out/frontend/vtc_out : pynq.overlay.DefaultIP
    video/hdmi_in/frontend/vtc_in : pynq.overlay.DefaultIP
    video/hdmi_in/pixel_pack : pynq.lib.video.pipeline.PixelPacker
    video/hdmi_in/color_convert : pynq.lib.video.pipeline.ColorConverter
    video/hdmi out/color convert : pynq.lib.video.pipeline.ColorConverter
    video/hdmi_out/pixel_unpack : pynq.lib.video.pipeline.PixelPacker
    trace_analyzer_pmodb/axi_dma_0 : pynq.lib.dma.DMA
    trace_analyzer_pi/axi_dma_0 : pynq.lib.dma.DMA
    trace analyzer pi/trace cntrl 64 0 : pynq.overlay.DefaultIP
    trace_analyzer_pmodb/trace_cntrl_32_0 : pynq.overlay.DefaultIP
    ps7 0
                         : pynq.overlay.DefaultIP
    Hierarchies
                         : pynq.lib.pynqmicroblaze.pynqmicroblaze.MicroblazeHierarc
    iop arduino
hy
    iop_pmoda
                         : pynq.lib.pynqmicroblaze.pynqmicroblaze.MicroblazeHierarc
hy
                         : pynq.lib.pynqmicroblaze.pynqmicroblaze.MicroblazeHierarc
    iop_pmodb
hy
    iop_rpi
                         : pynq.lib.pynqmicroblaze.pynqmicroblaze.MicroblazeHierarc
hy
    trace analyzer pi : pynq.overlay.DefaultHierarchy
    trace_analyzer_pmodb : pynq.overlay.DefaultHierarchy
    video
                        : pynq.lib.video.hierarchies.HDMIWrapper
    video/hdmi in
                        : pynq.lib.video.hierarchies.VideoIn
    video/hdmi in/frontend : pynq.lib.video.dvi.HDMIInFrontend
    video/hdmi out
                        : pynq.lib.video.hierarchies.VideoOut
    video/hdmi_out/frontend : pynq.lib.video.dvi.HDMIOutFrontend
    Interrupts
    -----
    None
    GPIO Outputs
    None
    Memories
    iop pmodamb bram ctrl : Memory
```

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```
iop_pmodbmb_bram_ctrl : Memory
iop_arduinomb_bram_ctrl : Memory
iop_rpimb_bram_ctrl : Memory
PSDDR : Memory
```

```
In [7]: led0 = base.leds[0]
    led0.on()
    time.sleep(2)
    led0.off()
In []:
```

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