Add-Type -AssemblyName System.Windows.Forms

$form = New-Object System.Windows.Forms.Form

$form.Text = "CPU and Memory Usage"

$form.Size = New-Object System.Drawing.Size(400, 200)

$form.StartPosition = "CenterScreen"

$labelCPU = New-Object System.Windows.Forms.Label

$labelCPU.Location = New-Object System.Drawing.Point(10, 20)

$labelCPU.Size = New-Object System.Drawing.Size(360, 20)

$form.Controls.Add($labelCPU)

$labelMemory = New-Object System.Windows.Forms.Label

$labelMemory.Location = New-Object System.Drawing.Point(10, 50)

$labelMemory.Size = New-Object System.Drawing.Size(360, 20)

$form.Controls.Add($labelMemory)

$labelCPUPower = New-Object System.Windows.Forms.Label

$labelCPUPower.Location = New-Object System.Drawing.Point(10, 80)

$labelCPUPower.Size = New-Object System.Drawing.Size(360, 20)

$form.Controls.Add($labelCPUPower)

$labelMemoryPower = New-Object System.Windows.Forms.Label

$labelMemoryPower.Location = New-Object System.Drawing.Point(10, 110)

$labelMemoryPower.Size = New-Object System.Drawing.Size(360, 20)

$form.Controls.Add($labelMemoryPower)

function Update-SystemInfo {

# Get CPU usage

$cpuUsage = (Get-WmiObject -Class Win32\_Processor | Measure-Object -Property LoadPercentage -Average).Average

# Get memory usage

$memory = Get-WmiObject -Class Win32\_OperatingSystem

$totalMemory = $memory.TotalVisibleMemorySize / 1MB # Convert to MB for easier calculation

$freeMemory = $memory.FreePhysicalMemory / 1MB # Convert to MB for easier calculation

$usedMemory = $totalMemory - $freeMemory

$memoryUsage = ($usedMemory / $totalMemory) \* 100

# Calculate CPU power consumption (example, adjust based on actual CPU details)

$coreVoltage = 1.1 # Replace with your actual core voltage in volts

$cpuFrequency = 3400 # Replace with your actual CPU frequency in MHz

$cpuPower = ($cpuUsage / 100) \* ($coreVoltage \* $cpuFrequency \* 0.003) # Adjust multiplier based on CPU characteristics

# Calculate Memory power consumption (example, adjust based on actual memory details)

$memoryPower = ($usedMemory / $totalMemory) \* 2 # Adjust multiplier based on memory characteristics

# Update labels

$labelCPU.Text = "CPU Usage: {0:N2} %" -f $cpuUsage

$labelMemory.Text = "Memory Usage: {0:N2} %" -f $memoryUsage

$labelCPUPower.Text = "CPU Power Consumption: {0:N2} mW" -f $cpuPower

$labelMemoryPower.Text = "Memory Power Consumption: {0:N2} mW" -f $memoryPower

}

$timer = New-Object System.Windows.Forms.Timer

$timer.Interval = 1000 # Update interval in milliseconds (1000 ms = 1 second)

$timer.Add\_Tick({ Update-SystemInfo })

$timer.Start()

[void]$form.ShowDialog()