<span class="hljs-class"><span class="hljs-keyword">class</span> <span class="hljs-title">Device</span></span> {

[<span class="hljs-built\_in">string</span>]<span class="hljs-variable">$Brand</span>

[<span class="hljs-built\_in">string</span>]<span class="hljs-variable">$Model</span>

[<span class="hljs-built\_in">string</span>]<span class="hljs-variable">$VendorSku</span>

<span class="hljs-function">[<span class="hljs-built\_in">string</span>]<span class="hljs-title">ToString</span></span>(){

<span class="hljs-keyword">return</span> (<span class="hljs-string">"{0}|{1}|{2}"</span> <span class="hljs-operator">-f</span> <span class="hljs-keyword">$this</span>.Brand, <span class="hljs-keyword">$this</span>.Model, <span class="hljs-keyword">$this</span>.VendorSku)

}

}

<span class="hljs-class"><span class="hljs-keyword">class</span> <span class="hljs-title">Rack</span> : <span class="hljs-title">Device</span></span> {

<span class="hljs-keyword">hidden</span> [<span class="hljs-built\_in">int</span>] <span class="hljs-variable">$Slots</span> = <span class="hljs-number">8</span>

<span class="hljs-keyword">static</span> [<span class="hljs-type">Rack</span>[]]<span class="hljs-variable">$InstalledRacks</span> = <span class="hljs-selector-tag">@</span>()

[<span class="hljs-built\_in">int</span>]<span class="hljs-variable">$Slots</span> = <span class="hljs-number">8</span>

[<span class="hljs-built\_in">string</span>]<span class="hljs-variable">$Brand</span>

[<span class="hljs-built\_in">string</span>]<span class="hljs-variable">$Model</span>

[<span class="hljs-built\_in">string</span>]<span class="hljs-variable">$VendorSku</span>

[<span class="hljs-built\_in">string</span>]<span class="hljs-variable">$AssetId</span>

[<span class="hljs-type">Device</span>[]]<span class="hljs-variable">$Devices</span> = [<span class="hljs-type">Device</span>[]]::new(<span class="hljs-keyword">$this</span>.Slots)

Device(

[<span class="hljs-built\_in">string</span>]<span class="hljs-variable">$b</span>,

[<span class="hljs-built\_in">string</span>]<span class="hljs-variable">$m</span>,

[<span class="hljs-built\_in">string</span>]<span class="hljs-variable">$vsk</span>

){

<span class="hljs-keyword">$this</span>.Brand = <span class="hljs-variable">$b</span>

<span class="hljs-keyword">$this</span>.Model = <span class="hljs-variable">$m</span>

<span class="hljs-keyword">$this</span>.VendorSku = <span class="hljs-variable">$vsk</span>

}

<span class="hljs-function">[<span class="hljs-built\_in">void</span>] <span class="hljs-title">AddDevice</span></span>([<span class="hljs-type">Device</span>]<span class="hljs-variable">$dev</span>, [<span class="hljs-built\_in">int</span>]<span class="hljs-variable">$slot</span>){

<span class="hljs-comment">## Add argument validation logic here</span>

<span class="hljs-keyword">$this</span>.Devices[<span class="hljs-variable">$slot</span>] = <span class="hljs-variable">$dev</span>

}

<span class="hljs-function">[<span class="hljs-built\_in">void</span>]<span class="hljs-title">RemoveDevice</span></span>([<span class="hljs-built\_in">int</span>]<span class="hljs-variable">$slot</span>){

<span class="hljs-comment">## Add argument validation logic here</span>

<span class="hljs-keyword">$this</span>.Devices[<span class="hljs-variable">$slot</span>] = <span class="hljs-variable">$null</span>

}

<span class="hljs-function">[<span class="hljs-built\_in">int</span>[]] <span class="hljs-title">GetAvailableSlots</span></span>(){

[<span class="hljs-built\_in">int</span>]<span class="hljs-variable">$i</span> = <span class="hljs-number">0</span>

<span class="hljs-keyword">return</span> <span class="hljs-selector-tag">@</span>(<span class="hljs-keyword">$this</span>.Devices.foreach{ <span class="hljs-keyword">if</span>(<span class="hljs-variable">$\_</span> <span class="hljs-operator">-eq</span> <span class="hljs-variable">$null</span>){<span class="hljs-variable">$i</span>}; <span class="hljs-variable">$i</span>++})

}

}

<span class="hljs-variable">$rack</span> = [<span class="hljs-type">Rack</span>]::new()

<span class="hljs-variable">$surface</span> = [<span class="hljs-type">Device</span>]::new()

<span class="hljs-variable">$surface</span>.Brand = <span class="hljs-string">"Microsoft"</span>

<span class="hljs-variable">$surface</span>.Model = <span class="hljs-string">"Surface Pro 4"</span>

<span class="hljs-variable">$surface</span>.VendorSku = <span class="hljs-string">"5072641000"</span>

<span class="hljs-variable">$rack</span>.AddDevice(<span class="hljs-variable">$surface</span>, <span class="hljs-number">2</span>)

<span class="hljs-variable">$rack</span>

<span class="hljs-variable">$rack</span>.GetAvailableSlots()