**Question-2 : Retrieve Metadata of an Azure Instance and provide a json formatted output.**

1. Use Az PowerShell module
2. Create two functions:
3. **Get-AzureVmInstanceMetadata**: Retrieves the entire Azure instance metadata.
4. **Get-AzureVmMetadataKeyData** : Takes a key as input and retrieves the corresponding value from the metadata.
5. The input to instance key could be compute, network etc for the running VM.

**PowerShell Script:**

function Get-AzureVmInstanceMetadata {

    # Get Azure Metadata URL

    $metadataUrl = "http://169.254.169.254/metadata/instance?api-version=2021-12-13"

    # Retrieve Azure Metadata

    $metadata = Invoke-RestMethod -Headers @{"Metadata"="true"} -Method GET -Uri $metadataUrl

    return $metadata

}

function Get-AzureVmMetadataKeyData {

    param (

        [Parameter(Mandatory=$true)]

        [string]$key

    )

    # Get Azure Instance Metadata

    $metadata = Get-AzureVmInstanceMetadata

    # Retrieve the specified key

    $value = $metadata.$key

    return $value

}

# Example Usage:

# Replace 'instanceType' with the key you want to retrieve

$metadataValue = Get-AzureVmMetadataKeyData -key Compute

Write-Output $metadataValue

**Output:**

