**Project Title:**

**Azure Load Balancer with Two VMs for High Availability**

**Goal:**

To demonstrate how to set up a load balancer in Azure that distributes traffic to multiple virtual machines, ensuring high availability and failover.

**Tools/Services Used:**

* Azure Load Balancer
* 2 x Windows Virtual Machines
* Network Security Group (NSG)
* Azure Resource Group
* Load Balancer IP

**Steps Taken:**

1. Created a Resource Group.
2. Created two Windows VMs in the same region and availability Zone.
3. Deployed a simple web server.
4. Created a Load Balancer with:
   * Frontend IP
   * Backend Pool (added both VMs)
   * Health Probe on port 80
   * Load Balancing Rule for HTTP
   * Inbound NAT Rule
   * Outbound NAT Rule
5. Configured NSG to allow port 80 inbound.
6. Tested by accessing the Load Balancer IP from browser.

**Outcome:**

Successfully accessed web service via Load Balancer IP, even when one VM was shut down — demonstrating traffic failover.