Task: Create POST request for creating instance on GCE & Implementation of HealthCheck instance.

- Application name: GCEOps.go
- Technology used: Google Go Lang
- API used: Google **GC API**
- OS platform: Windows 10 64bit

Brief:

Application accepts several parameters & based on parameters it performs different operations like Instance and/or HealthCheck creation on Google GCE.

Usage:

GCEOps.go -pn=PROJECT_NAME -zn=ZONE -in=VMNAME -mt=MACHINE_TYPE -si=SOURCE_IMAGE_PATH -ops=TYPE_OF_OPERATION

Where:

- -pn (Type string): PROJECT NAME
- -zn (Type string): ZONE, e.g. us-central1-a
- -in (Type string): INSTANCE NAME (VM NAME), e.g. mynewvm
- -mt (Type string): MACHINE TYPE, e.g. f1-micro
- -si (Type string): PATH TO SOURCE IMAGE, e.g. centos-cloud/global/images/centos-6-v20170620
- -ops (Type string): TYPE OF OPERATIONS e.g. I for create new instance, H for create
 - new HealthCheck, B for creating new VM & HealthCheck instance and
 - default is HealthCheck response.
- -hin (Type string): INSTANCE NAME (VM NAME), e.g. mynewhealthcheck

e.g.

GCEOps.go -pn=crygce-test -zn=us-central1-a -in=mynewinstance001 -mt=f1-micro - si=centos-cloud/global/images/centos-6-v20170620 -ops=I -hin=hc001

Functional details:

- Function name createVMinstance:
 - o Parameters: Project Name, Zone, Instance, Machine type, Source IMG
 - o Purpose:
 - Create new VM instance
 - Prints status of newly created instance
 - Prints Internal & external IP of an Instance
 - Return value: N.A.
- E.g. func createVMinstance (pname string, zone string, instanceName string, machineType string, scrimage string)
 - Function name createHealthchk:
 - o Parameters: Project Name, Zone, Project URL, Instance Name
 - o Purpose:
 - Crate new HealthCheck instance
 - Prints HealthCheck status
 - Return value: N.A.
- E.g. func createHealthchk (project string, zone string, myprojURL string, hcName
 string) {
 - Function name HealthStatusGet:
 - Parameters: Project_Name, Instance_Name
 - o Purpose:
 - Checks for HealthCheck on given instance
 - Return value: resp.HTTPStatusCode (int)
- E.g. func HealthStatusGet (project string, hcName string) int {}
 - Function name getresponse:
 - o Parameters: Project Name, Zone, VM Instance Name
 - o Purpose:
 - Checks for current status of an instance
 - Return value: resp.Status (string)
- E.g. func HealthStatusGet (project string, hcName string) int {}