Practical: Shell Scripting -2

Aim: Create a Locally routable Domain and open a simple html page on it. ex: www.your-name.com should open html page on your local machine.

Domain.sh

A script to add www.vishwaas.com to /etc/hosts if it does not exist already.

```
$ Domain.sh ×      ✿ hello.conf

home > vishwaas > Desktop > Routable_Domain > $ Domain.sh
  1    # !/bin/bash
  2
  3    Domain="www.vishwaas.com";
  4    echo "Domain : $Domain";
  5
  6    $(grep -w $Domain /etc/hosts);
  7
  8    if [ $? -gt 0 ];
  9    then
 10        echo -e "\nAdding $Domain to /etc/hosts";
 11        echo "127.0.0.2      $Domain" >> /etc/hosts;
 12        grep -w "$Domain" /etc/hosts;
 13
 14    else
 15        echo -e "\n$Domain alreay Exists !!";
 16    fi
 17
```

Before Executing the Script

```
vishwaas@sf-cpu-415:/etc/apache2/sites-enabled$ cat /etc/hosts
127.0.0.1       localhost
127.0.1.1       SF-CPU-415
172.16.6.46     vishwaas
172.16.6.248    first.hg
172.16.5.242    demo.taskforssl.com
172.16.1.175    www.raj.com
#172.16.5.13    www.cleanup.com
172.16.6.142    www.cleanup.com

172.16.4.52     www.cleanfast.com
# The following lines are desirable for IPv6 capable hosts
::1     ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

Executing the Script

```
root@sf-cpu-415:/home/vishwaas/Desktop/Routable_Domain# ./Domain.sh
Domain : www.vishwaas.com

Adding www.vishwaas.com to /etc/hosts
127.0.0.2      www.vishwaas.com
root@sf-cpu-415:/home/vishwaas/Desktop/Routable_Domain#
```

Execution Successful

Domain added Successfull

```
root@sf-cpu-415:/home/vishwaas/Desktop/Routable_Domain# cat /etc/hosts
127.0.0.1       localhost
127.0.1.1       SF-CPU-415
172.16.6.46     vishwaas
172.16.6.248    first.hg
172.16.5.242    demo.taskforssl.com
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# The following lines are desirable for IPv6 capable hosts
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ff02::2 ip6-allrouters

127.0.0.2       www.vishwaas.com
```

Adding a Virtual Host in Apache Server. The ServerName is the domain name
www.vishwaas.com. It will listen on port 80 (HTTP).

```
$ Domain.sh        hello.conf ×

etc > apache2 > sites-enabled > hello.conf
  1    <VirtualHost 127.0.0.3:80>
  2        # The ServerName directive sets the request scheme, hostname and port that
  3        # the server uses to identify itself. This is used when creating
  4        # redirection URLs. In the context of virtual hosts, the ServerName
  5        # specifies what hostname must appear in the request's Host: header to
  6        # match this virtual host. For the default virtual host (this file) this
  7        # value is not decisive as it is used as a last resort host regardless.
  8        # However, you must set it for any further virtual host explicitly.
  9        #ServerName www.example.com
 10
 11        ServerAdmin webmaster@localhost
 12        DocumentRoot /var/www/Hello
 13        ServerName www.vishwaas.com
 14
```

Index.html

```
$ Domain.sh        ⚙ hello.conf        <> index.html  ✕

var > www > Hello > <> index.html > ⊘ html > ⊘ head > ⊘ style > ⊷ #change
    1   <html>
    2   <head>
    3     <title> Ubuntu rocks! </title>
    4
    5     <style>
    6     body {
    7     background: ■lavender;
    8     }
    9
   10     .inside {
   11        color : ■orangered;
   12
   13     }
   14
   15     div {
   16        margin:100px;
   17        padding-left:100px;
   18     }
   19
   20     #change {
   21        color: ■deeppink;
   22     }
   23
   24     </style>
   25   </head>
   26   <body>
   27     </h1> <p> I'm running this website on an Ubuntu Server server ! </h1>
   28    <div>
   29    <marquee>
   30     <h1 class="inside">  My name is Vishwaas </h1>
   31     <h1 id="change">  I am learing DevOps </h1>
   32    </marquee>
   33   </div>
   34   </body>
   35   </html>
```

Output

I'm running this website on an Ubuntu Server server !

My name is Vishwaas

I am learing DevOps