

EXECUTION OF .CGI AND .PHP PROGRAMS

Step 1:

Install apache2

- Open terminal and type `sudo apt-get -y install apache2`

Install perl

- Open terminal and type `sudo apt-get -y install perl`

Install CGI

- Open terminal and type `sudo apt install libcgi-pm-perl`

Install php (required for .php programs)

- In terminal type `sudo apt install php`

Note: You will have to install these libraries once

Step 2:

Open terminal and run these commands

```
> sudo a2enmod cgi
> sudo systemctl restart apache2
```

If you have not created cgi-enabled directory follow these steps

```
> cd /var/www/html
> mkdir cgi-enabled
```

After successfully creating cgi-enabled directory return to root by typing `cd ../` until you are in `"/` directory and then `cd` again to return to root.

Step 3:

You may also have to create cgi-enabled.conf file, to create

```
> cd /etc/apache2/conf-available  
> sudo vi cgi-enabled.conf
```

And paste the code below

```
<Directory “/var/www/html/cgi-enabled” >  
Options +ExecCGI  
AddHandler cgi-script .cgi .pl  
</Directory>
```

To save press esc+: and then type x and hit enter

Note: you will have to create cgi-enabled.conf only once not for each .cgi program

Now return to root by typing `cd ../` until you are in “/” directory and then `cd` again to return to root.

In root, type

```
> sudo a2enconf cgi-enabled  
> sudo systemctl restart apache2  
> cd /var/www/html/cgi-enabled  
> sudo vi program-name.cgi
```

Paste the program code in vi editor and to save press esc+: and then type x and hit enter and type

```
> sudo chmod 777 program-name.cgi  
> perl program-name.cgi
```

The website should be served on `localhost/cgi-enabled/program-name.cgi`

EXECUTION OF .PHP PROGRAMS

Open terminal and type

```
> cd /var/www/html  
> sudo vi program-name.php
```

Paste the program and save by pressing esc+: and then type x and hit enter

```
> sudo chmod 777 program-name.php
```

The website should be served on `localhost/program-name.php`

Error free versions of .cgi and .php files can be found on link below

- 9 A: <http://usmansagri.esy.es/9a.txt>
- 9 B: <http://usmansagri.esy.es/9b.txt>
- 9 C: <http://usmansagri.esy.es/9c.txt>
- 11 A: <http://usmansagri.esy.es/11a.txt>
- 11 B: <http://usmansagri.esy.es/11b.txt>