**Deerwalk Institute Of Technology**

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**Internet Technology**

Lab 5 CGI

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**CGI Scripts:**

* CGI is abbreviation of Common Gateway Interface which is responsible for transfer of information between a World Wide Web server and a CGI program.

* A CGI program is any program designed to accept and return data that is with the standard of the CGI specification.

* The program could be written in C, Perl, Java, Python or Visual Basic language.
* CGI programs are effective way to interact dynamically with different users.
* CGI scripts are written only in Linux based OS.
* The CGI scripts are placed inside the directory: /usr/lib/cgi-bin

**Example:**

Bash CGI script to list all files and folders inside **/opt** directory:

#!/bin/bash

echo "Content-type: text/html"

echo ''

for eachdir in "/opt"/\*

do

echo "<p>$eachdir</p><br>"

done

First line is the path to the bash interpreter. If other languages, we specify the compiler location.

Then content type is set as HTML or text type as it can be rendered in the web browser.

Then, we write the code for the bash scripts.

In web browser, the output can be seen in location:

[***http://localhost***](http://localhost/)***:<port>/cgi-bin/<filename>.<extension>***

If output is not seen, we have to start the cgi service using command: $ sudo a2enmod cgi