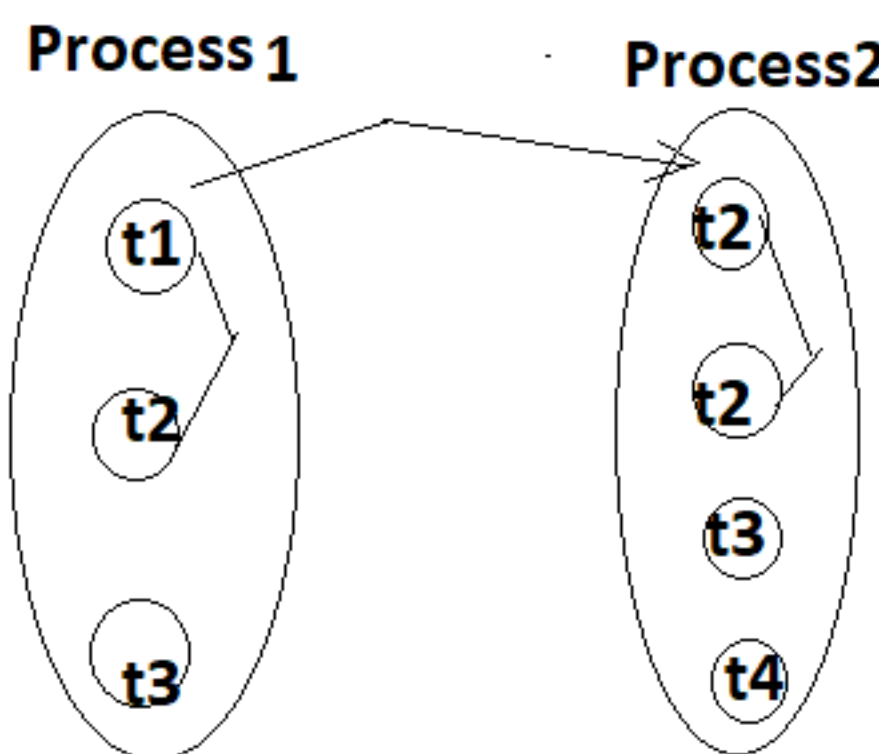
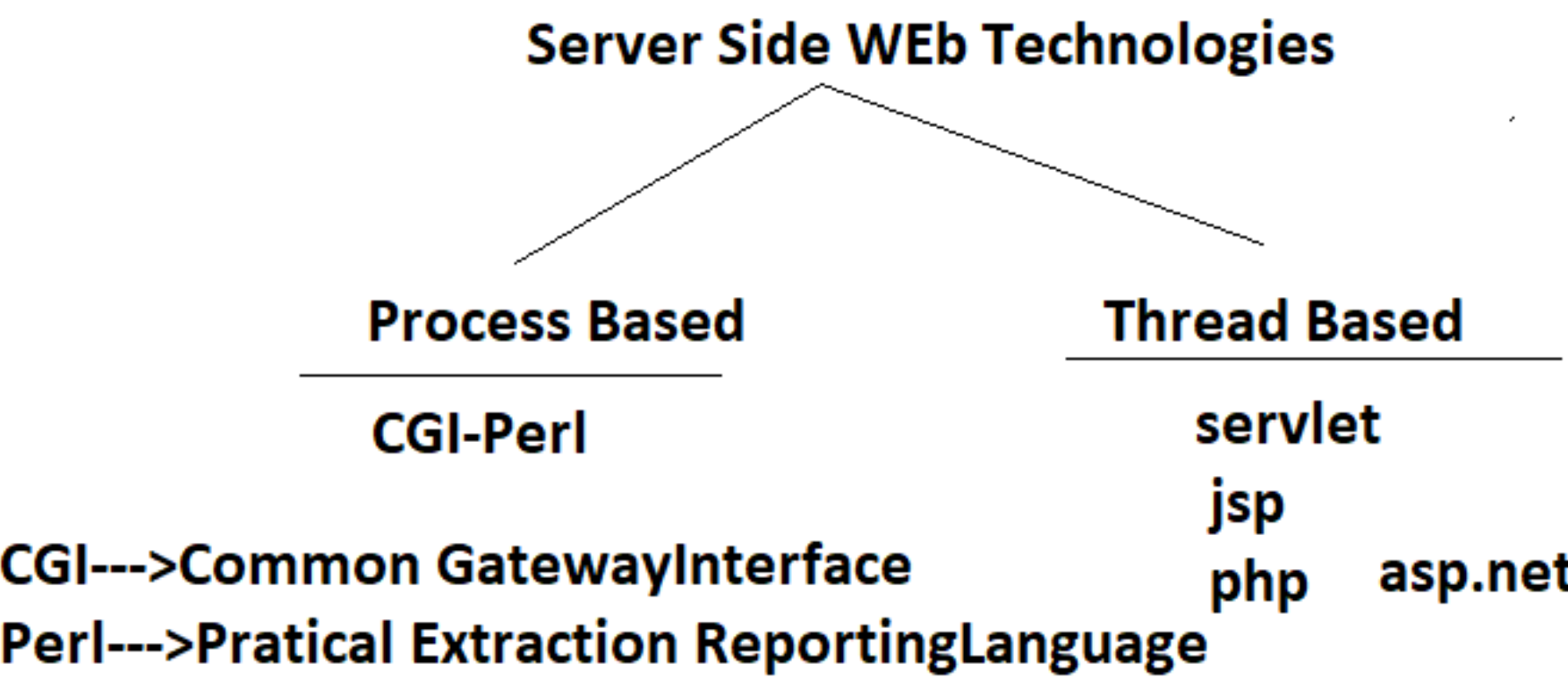


What is the difference between Process and Thread..

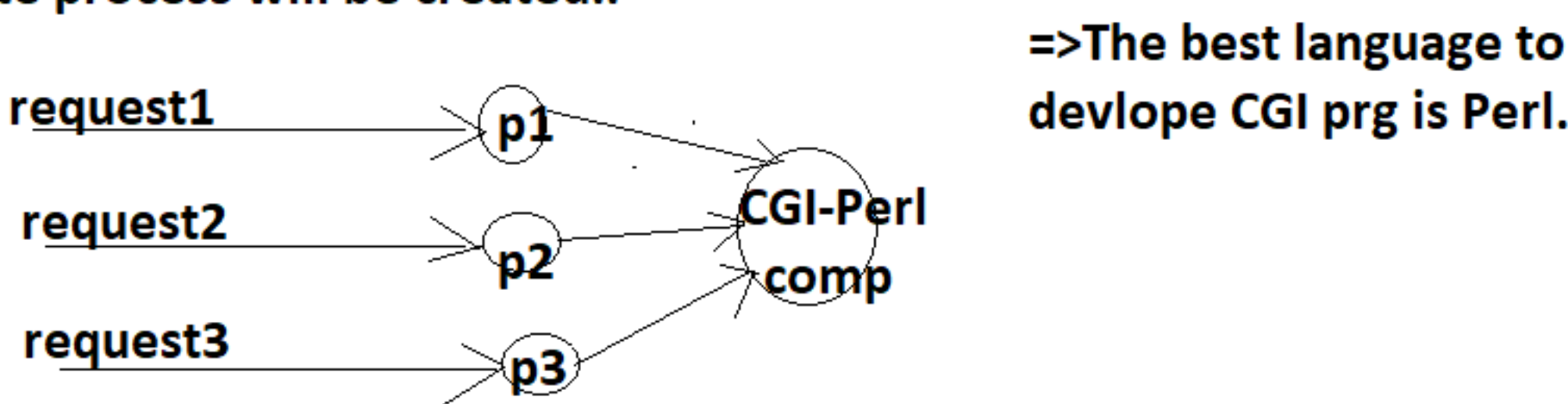
Both are managed by OS..
-->Thread is called light weight process or Sub Process..



The Context swithcing between two Processes will take more time when compare to the context swithcing between two threads of a process...



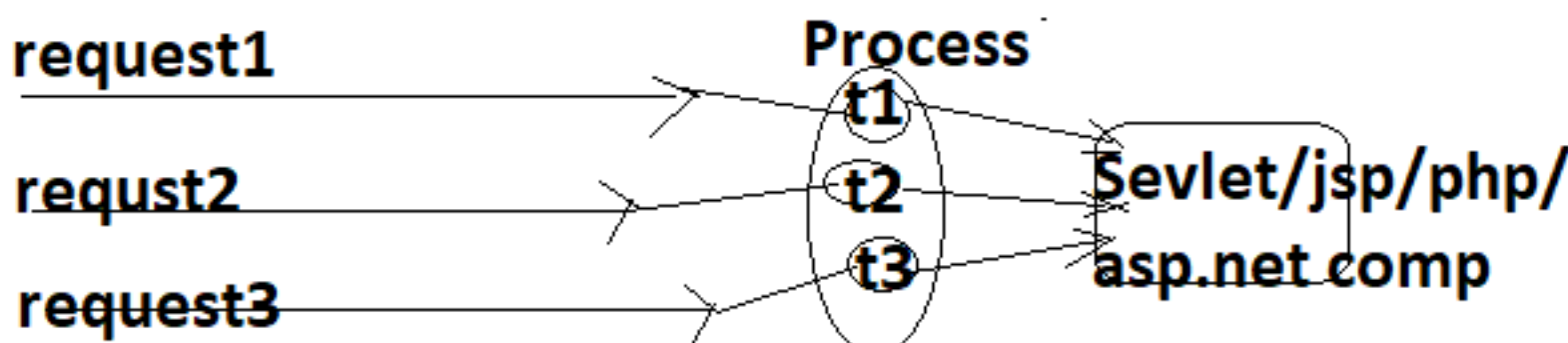
if we give requests to Process basd web comp , for every request one seperate process will be created..



=>The best language to devlope CGI prg is Perl.

=> CGI-PERL Applications are not scalable becoz when more requests are given simulataenously then more processes will be created on 1 per request basis... Since the context switching between processes takes more time ,the overall performance will be distrubed.

=>In Thread based Server side technologies one thread will be created in daemon process for every request as shown below..



Since the context switching between threads of a Process takes less time, we can Thred base server side technology Apps are scalable i.e they give good performance irresepective no.of requests are increased or decreased..

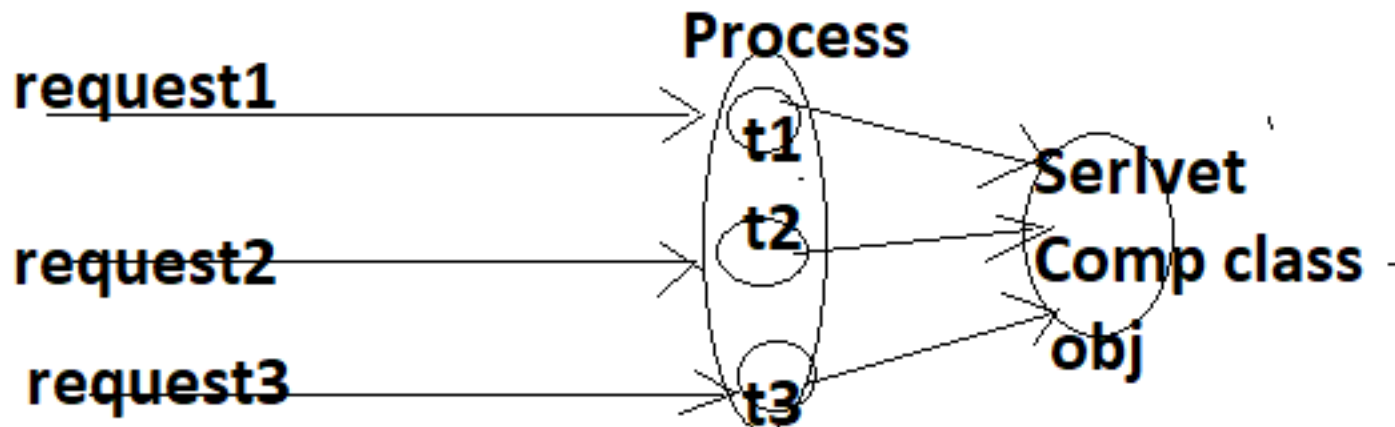
What is Servlet? Definitation of a Servlet

a) Servlet is java based SErver side web Technology that allows to develop dynamic web comps having ability to generate dynamic webpages.

b) Servlet is JEE module's server side web Technology that allows to extend the functionalaties of WebServer or Http Server having ability to process the requests..

c) Servlet is a JEE module's server side web Technology that allows to develop "Signgle instance multiple threads based " server side web comps in java web applicaiton..

if we "n" reqursts to servlet comp , The Servlet container creates 1 obj of Servlet comp class, but starts multiple threads on that Obj for multiple requests..



d) Servlet is JEE module Technology /specification giving api (pkgs) and this api will be used by S/w vendors as rules and guidelines to develop servlet Container and the same api will be used by developers to develop servlet comps as server side web comps.

Servlet api 4.0 packages are

javax.servlet
javax.servlet.http
javax.servlet.annotaion
javax.servlet.descriptor

note: In Tomcat servet servlet api comes in the form of <Tomcat_home>\lib\servlet-api.jar file

Jsp 2.2 api packages are

javax.servlet.jsp
javax.servlet.jsp.tagext
javax.servlet.jsp.el
and etc..

note: In Tomcat servet _jsp _api comes in the form of <Tomcat_home>\lib\jsp-api.jar file

API (Applicaiton Programming Interface)

C---> header files having set of functions
C++ --> header files having set of functions and classes
Java ----> packages having set classes interfaces , enums and annotations..

3 types of apis

a) pre-defined apis
b) user-defined apis
c) Third party apis

=>We develop servlet comp as java class using servlet api support, So we must add the servlet api related jar files to CLASSPATH before Compilation and execution..