

231123 (Apache24, 설치 및 명령어)

자바스프링

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Cmd 관리자모드

httpd -k install /

httpd -k uninstall / 삭제. Webserver가 정상 구동하지 않을 경우에 한다

httpd -k start / 시작

httpd -k status / 구동중인지 아닌지 상태 확인

httpd -k stop 중지 / (파일에 변동이 생기면 / update 할 것이면 stop 먼저 해야 한다)

httpd -k restart / 재시작 (웹서버엿 직접 작업했을 때 stop안하고 그냥 restart해도 된다)

```

2022-03-14 오후 06:42 141,824 nghttp2.dll
2022-06-24 오후 05:00 544,256 openssl.exe
2021-08-24 오후 10:05 391,168 pcre.dll
2022-06-06 오후 05:41 336,384 pcre2-8.dll
2022-06-24 오후 05:14 77,312 rotatelog.exe
2022-06-24 오후 05:14 18,432 wintty.exe
2022-05-05 오후 04:45 89,088 zlib1.dll
31개 파일 9,584,104 바이트
3개 디렉터리 33,946,783,744 바이트 남음

c:\W\Apache24\bin>httpd -k install
Installing the 'Apache2.4' service
The 'Apache2.4' service is successfully installed.
Testing httpd.conf...
Errors reported here must be corrected before the service can be started.

c:\W\Apache24\bin>httpd -k install
[Thu Nov 23 11:08:46.019994 2023] [mpm_winnt:error] [pid 6332:tid 412] AH00433: Apache2.4: Service is already installed.

c:\W\Apache24\bin>httpd -k uninstall
Removing the 'Apache2.4' service
The 'Apache2.4' service has been removed successfully.

c:\W\Apache24\bin>httpd -k install
Installing the 'Apache2.4' service
The 'Apache2.4' service is successfully installed.
Testing httpd.conf...
Errors reported here must be corrected before the service can be started.

c:\W\Apache24\bin>httpd -k start

c:\W\Apache24\bin>httpd -k status
(OS 10048)각 소켓 주소(프로토콜/네트워크 주소/포트)는 하나만 사용할 수 있습니다. : AH00072: make_sock: could not bind t
o address [::]:80
(OS 10048)각 소켓 주소(프로토콜/네트워크 주소/포트)는 하나만 사용할 수 있습니다. : AH00072: make_sock: could not bind t
o address 0.0.0.0:80
AH00451: no listening sockets available, shutting down
AH00015: Unable to open logs

c:\W\Apache24\bin>httpd -k stop
The 'Apache2.4' service is stopping.
The 'Apache2.4' service has stopped.

c:\W\Apache24\bin>httpd -k start

c:\W\Apache24\bin>httpd -k status
(OS 10048)각 소켓 주소(프로토콜/네트워크 주소/포트)는 하나만 사용할 수 있습니다. : AH00072: make_sock: could not bind t
o address [::]:80
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o address 0.0.0.0:80
AH00451: no listening sockets available, shutting down
AH00015: Unable to open logs

c:\W\Apache24\bin>

```

C:\W\Apache24\htdocs

C드라이브-Apache24\htdocs 디렉토리에 원하는 html파일 넣으면

127.0.0.1 주소로 뜬다.

공식문서

- 29) Windows Service
- Installing services

Apache Tomcat 9 (9.0.83) - Windows Service How-To

The image shows a Windows desktop environment. On the left, a command prompt window titled "관리자: 명령 프롬프트" (Administrator: Command Prompt) is open, displaying the following commands and their outputs:

```

C:\>cd c:\wapache-tomcat-9.0\bin

c:\wapache-tomcat-9.0\bin>service uninstall
Removing the service 'Tomcat9' ...
Using CATALINA_BASE:   "c:\wapache-tomcat-9.0"
The service 'Tomcat9' has been removed

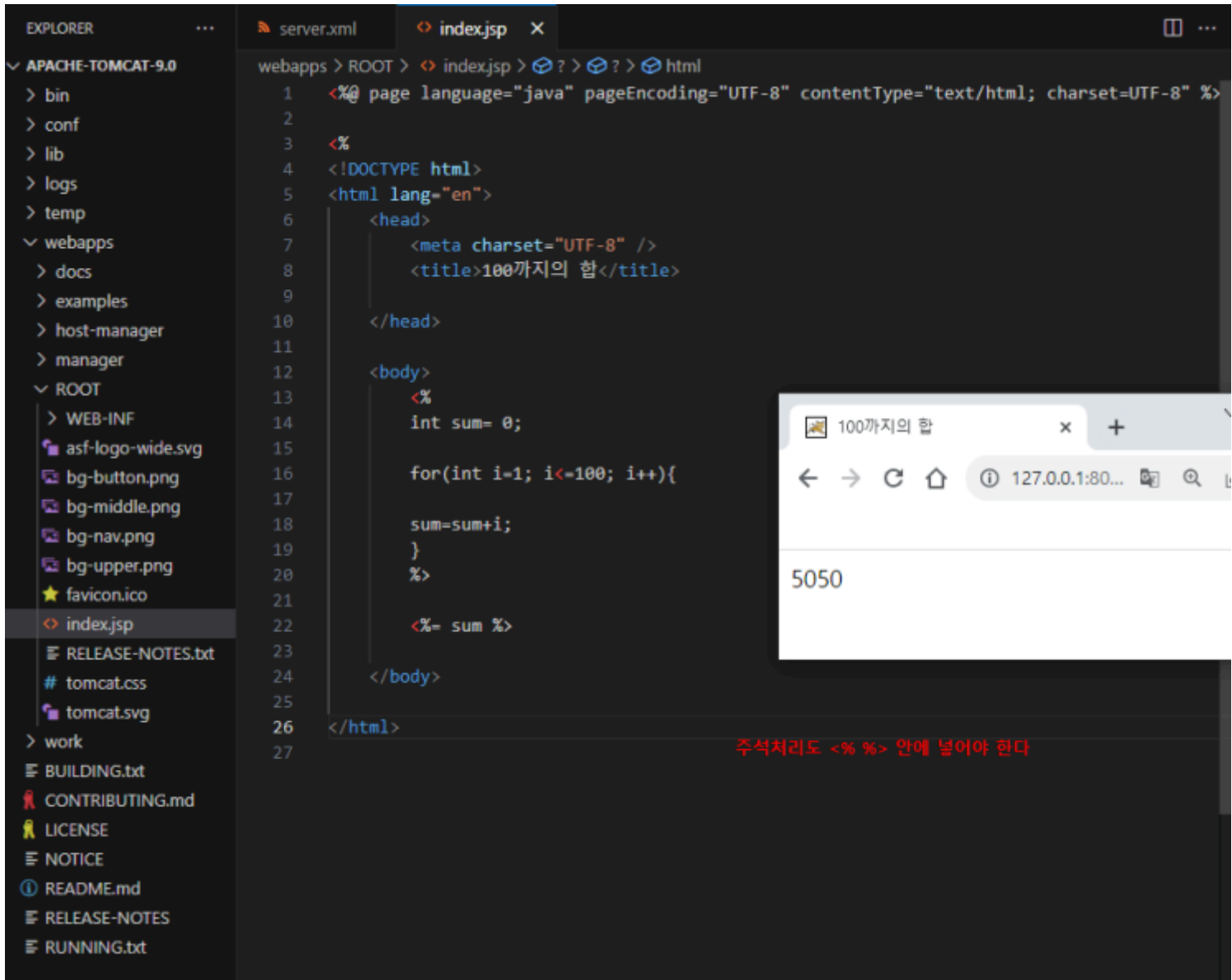
c:\wapache-tomcat-9.0\bin>service install
Installing the service 'Tomcat9' ...
Using CATALINA_HOME:   "c:\wapache-tomcat-9.0"
Using CATALINA_BASE:   "c:\wapache-tomcat-9.0"
Using JAVA_HOME:       "C:\Program Files\Java\jdk-11"
Using JRE_HOME:        "C:\Program Files\Java\jdk-11"
Using JVM:              "C:\Program Files\Java\jdk-11\bin\server\jvm.dll"
The service 'Tomcat9' has been installed.

c:\wapache-tomcat-9.0\bin>start
Using CATALINA_BASE:   "c:\wapache-tomcat-9.0"
Using CATALINA_HOME:   "c:\wapache-tomcat-9.0"
Using CATALINA_TMPDIR: "c:\wapache-tomcat-9.0\temp"
Using JRE_HOME:        "C:\Program Files\Java\jdk-11"
Using CLASSPATH:       "c:\wapache-tomcat-9.0\bin\bootstrap.jar;c:\wapache-tomcat-9.0\bin\tomcat-juli.jar"
Using CATALINA_OPTS:   ""
c:\wapache-tomcat-9.0\bin>
  
```

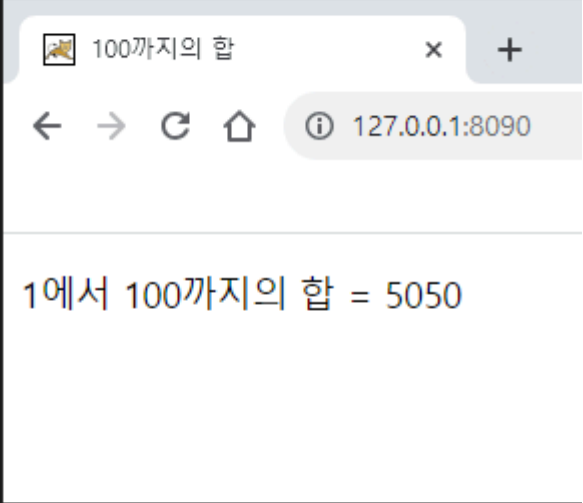
On the right, a web browser window titled "Tomcat" is open, displaying the Tomcat Manager web application. The interface has a black background with white text. It shows the URL "http://localhost:8080/manager/html" and a list of applications. The "Tomcat" application is selected, showing details such as "Status: Running" and "Version: 9.0.0.0". The "Operations" tab is active, displaying a list of actions: "Start", "Stop", "Reload", "Restart", "Deploy", "Undeploy", "Test", "Ping", "Flush", "FlushAll", "FlushAllAsync", "FlushAllAsync2", "FlushAllAsync3", "FlushAllAsync4", "FlushAllAsync5", "FlushAllAsync6", "FlushAllAsync7", "FlushAllAsync8", "FlushAllAsync9", "FlushAllAsync10", "FlushAllAsync11", "FlushAllAsync12", "FlushAllAsync13", "FlushAllAsync14", "FlushAllAsync15", "FlushAllAsync16", "FlushAllAsync17", "FlushAllAsync18", "FlushAllAsync19", "FlushAllAsync20", "FlushAllAsync21", "FlushAllAsync22", "FlushAllAsync23", "FlushAllAsync24", "FlushAllAsync25", "FlushAllAsync26", "FlushAllAsync27", "FlushAllAsync28", "FlushAllAsync29", "FlushAllAsync30", "FlushAllAsync31", "FlushAllAsync32", "FlushAllAsync33", "FlushAllAsync34", "FlushAllAsync35", "FlushAllAsync36", "FlushAllAsync37", "FlushAllAsync38", "FlushAllAsync39", "FlushAllAsync40", "FlushAllAsync41", "FlushAllAsync42", "FlushAllAsync43", "FlushAllAsync44", "FlushAllAsync45", "FlushAllAsync46", "FlushAllAsync47", "FlushAllAsync48", "FlushAllAsync49", "FlushAllAsync50", "FlushAllAsync51", "FlushAllAsync52", "FlushAllAsync53", "FlushAllAsync54", "FlushAllAsync55", "FlushAllAsync56", "FlushAllAsync57", "FlushAllAsync58", "FlushAllAsync59", "FlushAllAsync60", "FlushAllAsync61", "FlushAllAsync62", "FlushAllAsync63", "FlushAllAsync64", "FlushAllAsync65", "FlushAllAsync66", "FlushAllAsync67", "FlushAllAsync68", "FlushAllAsync69", "FlushAllAsync70", "FlushAllAsync71", "FlushAllAsync72", "FlushAllAsync73", "FlushAllAsync74", "FlushAllAsync75", "FlushAllAsync76", "FlushAllAsync77", "FlushAllAsync78", "FlushAllAsync79", "FlushAllAsync80", "FlushAllAsync81", "FlushAllAsync82", "FlushAllAsync83", "FlushAllAsync84", "FlushAllAsync85", "FlushAllAsync86", "FlushAllAsync87", "FlushAllAsync88", "FlushAllAsync89", "FlushAllAsync90", "FlushAllAsync91", "FlushAllAsync92", "FlushAllAsync93", "FlushAllAsync94", "FlushAllAsync95", "FlushAllAsync96", "FlushAllAsync97", "FlushAllAsync98", "FlushAllAsync99", "FlushAllAsync100", "FlushAllAsync101", "FlushAllAsync102", "FlushAllAsync103", "FlushAllAsync104", "FlushAllAsync105", "FlushAllAsync106", "FlushAllAsync107", "FlushAllAsync108", "FlushAllAsync109", "FlushAllAsync110", "FlushAllAsync111", "FlushAllAsync112", "FlushAllAsync113", "FlushAllAsync114", "FlushAllAsync115", "FlushAllAsync116", "FlushAllAsync117", "FlushAllAsync118", "FlushAllAsync119", "FlushAllAsync120", "FlushAllAsync121", "FlushAllAsync122", "FlushAllAsync123", "FlushAllAsync124", "FlushAllAsync125", "FlushAllAsync126", "FlushAllAsync127", "FlushAllAsync128", "FlushAllAsync129", "FlushAllAsync130", "FlushAllAsync131", "FlushAllAsync132", "FlushAllAsync133", "FlushAllAsync134", "FlushAllAsync135", "FlushAllAsync136", "FlushAllAsync137", "FlushAllAsync138", "FlushAllAsync139", "FlushAllAsync140", "FlushAllAsync141", "FlushAllAsync142", "FlushAllAsync143", "FlushAllAsync144", "FlushAllAsync145", "FlushAllAsync146", "FlushAllAsync147", "FlushAllAsync148", "FlushAllAsync149", "FlushAllAsync150", "FlushAllAsync151", "FlushAllAsync152", "FlushAllAsync153", "FlushAllAsync154", "FlushAllAsync155", "FlushAllAsync156", "FlushAllAsync157", "FlushAllAsync158", "FlushAllAsync159", "FlushAllAsync160", "FlushAllAsync161", "FlushAllAsync162", "FlushAllAsync163", "FlushAllAsync164", "FlushAllAsync165", "FlushAllAsync166", "FlushAllAsync167", "FlushAllAsync168", "FlushAllAsync169", "FlushAllAsync170", "FlushAllAsync171", "FlushAllAsync172", "FlushAllAsync173", "FlushAllAsync174", "FlushAllAsync175", "FlushAllAsync176", "FlushAllAsync177", "FlushAllAsync178", "FlushAllAsync179", "FlushAllAsync180", "FlushAllAsync181", "FlushAllAsync182", "FlushAllAsync183", "FlushAllAsync184", "FlushAllAsync185", "FlushAllAsync186", "FlushAllAsync187", "FlushAllAsync188", "FlushAllAsync189", "FlushAllAsync190", "FlushAllAsync191", "FlushAllAsync192", "FlushAllAsync193", "FlushAllAsync194", "FlushAllAsync195", "FlushAllAsync196", "FlushAllAsync197", "FlushAllAsync198", "FlushAllAsync199", "FlushAllAsync200", "FlushAllAsync201", "FlushAllAsync202", "FlushAllAsync203", "FlushAllAsync204", "FlushAllAsync205", "FlushAllAsync206", "FlushAllAsync207", "FlushAllAsync208", "FlushAllAsync209", "FlushAllAsync210", "FlushAllAsync211", "FlushAllAsync212", "FlushAllAsync213", "FlushAllAsync214", "FlushAllAsync215", "FlushAllAsync216", "FlushAllAsync217", "FlushAllAsync218", "FlushAllAsync219", "FlushAllAsync220", "FlushAllAsync221", "FlushAllAsync222", "FlushAllAsync223", "FlushAllAsync224", "FlushAllAsync225", "FlushAllAsync226", "FlushAllAsync227", "FlushAllAsync228", "FlushAllAsync229", "FlushAllAsync230", "FlushAllAsync231", "FlushAllAsync232", "FlushAllAsync233", "FlushAllAsync234", "FlushAllAsync235", "FlushAllAsync236", "FlushAllAsync237", "FlushAllAsync238", "FlushAllAsync239", "FlushAllAsync240", "FlushAllAsync241", "FlushAllAsync242", "FlushAllAsync243", "FlushAllAsync244", "FlushAllAsync245", "FlushAllAsync246", "FlushAllAsync247", "FlushAllAsync248", "FlushAllAsync249", "FlushAllAsync250", "FlushAllAsync251", "FlushAllAsync252", "FlushAllAsync253", "FlushAllAsync254", "FlushAllAsync255", "FlushAllAsync256", "FlushAllAsync257", "FlushAllAsync258", "FlushAllAsync259", "FlushAllAsync260", "FlushAllAsync261", "FlushAllAsync262", "FlushAllAsync263", "FlushAllAsync264", "FlushAllAsync265", "FlushAllAsync266", "FlushAllAsync267", "FlushAllAsync268", "FlushAllAsync269", "FlushAllAsync270", "FlushAllAsync271", "FlushAllAsync272", "FlushAllAsync273", "FlushAllAsync274", "FlushAllAsync275", "FlushAllAsync276", "FlushAllAsync277", "FlushAllAsync278", "FlushAllAsync279", "FlushAllAsync280", "FlushAllAsync281", "FlushAllAsync282", "FlushAllAsync283", "FlushAllAsync284", "FlushAllAsync285", "FlushAllAsync286", "FlushAllAsync287", "FlushAllAsync288", "FlushAllAsync289", "FlushAllAsync290", "FlushAllAsync291", "FlushAllAsync292", "FlushAllAsync293", "FlushAllAsync294", "FlushAllAsync295", "FlushAllAsync296", "FlushAllAsync297", "FlushAllAsync298", "FlushAllAsync299", "FlushAllAsync300", "FlushAllAsync301", "FlushAllAsync302", "FlushAllAsync303", "FlushAllAsync304", "FlushAllAsync305", "FlushAllAsync306", "FlushAllAsync307", "FlushAllAsync308", "FlushAllAsync309", "FlushAllAsync310", "FlushAllAsync311", "FlushAllAsync312", "FlushAllAsync313", "FlushAllAsync314", "FlushAllAsync315", "FlushAllAsync316", "FlushAllAsync317", "FlushAllAsync318", "FlushAllAsync319", "FlushAllAsync320", "FlushAllAsync321", "FlushAllAsync322", "FlushAllAsync323", "FlushAllAsync324", "FlushAllAsync325", "FlushAllAsync326", "FlushAllAsync327", "FlushAllAsync328", "FlushAllAsync329", "FlushAllAsync330", "FlushAllAsync331", "FlushAllAsync332", "FlushAllAsync333", "FlushAllAsync334", "FlushAllAsync335", "FlushAllAsync336", "FlushAllAsync337", "FlushAllAsync338", "FlushAllAsync339", "FlushAllAsync340", "FlushAllAsync341", "FlushAllAsync342", "FlushAllAsync343", "FlushAllAsync344", "FlushAllAsync345", "FlushAllAsync346", "FlushAllAsync347", "FlushAllAsync348", "FlushAllAsync349", "FlushAllAsync350", "FlushAllAsync351", "FlushAllAsync352", "FlushAllAsync353", "FlushAllAsync354", "FlushAllAsync355", "FlushAllAsync356", "FlushAllAsync357", "FlushAllAsync358", "FlushAllAsync359", "FlushAllAsync360", "FlushAllAsync361", "FlushAllAsync362", "FlushAllAsync363", "FlushAllAsync364", "FlushAllAsync365", "FlushAllAsync366", "FlushAllAsync367", "FlushAllAsync368", "FlushAllAsync369", "FlushAllAsync370", "FlushAllAsync371", "FlushAllAsync372", "FlushAllAsync373", "FlushAllAsync374", "FlushAllAsync375", "FlushAllAsync376", "FlushAllAsync377", "FlushAllAsync378", "FlushAllAsync379", "FlushAllAsync380", "FlushAllAsync381", "FlushAllAsync382", "FlushAllAsync383", "FlushAllAsync384", "FlushAllAsync385", "FlushAllAsync386", "FlushAllAsync387", "FlushAllAsync388", "FlushAllAsync389", "FlushAllAsync390", "FlushAllAsync391", "FlushAllAsync392", "FlushAllAsync393", "FlushAllAsync394", "FlushAllAsync395", "FlushAllAsync396", "FlushAllAsync397", "FlushAllAsync398", "FlushAllAsync399", "FlushAllAsync400", "FlushAllAsync401", "FlushAllAsync402", "FlushAllAsync403", "FlushAllAsync404", "FlushAllAsync405", "FlushAllAsync406", "FlushAllAsync407", "FlushAllAsync408", "FlushAllAsync409", "FlushAllAsync410", "FlushAllAsync411", "FlushAllAsync412", "FlushAllAsync413", "FlushAllAsync414", "FlushAllAsync415", "FlushAllAsync416", "FlushAllAsync417", "FlushAllAsync418", "FlushAllAsync419", "FlushAllAsync420", "FlushAllAsync421", "FlushAllAsync422", "FlushAllAsync423", "FlushAllAsync424", "FlushAllAsync425", "FlushAllAsync426", "FlushAllAsync427", "FlushAllAsync428", "FlushAllAsync429", "FlushAllAsync430", "FlushAllAsync431", "FlushAllAsync432", "FlushAllAsync433", "FlushAllAsync434", "FlushAllAsync435", "FlushAllAsync436", "FlushAllAsync437", "FlushAllAsync438", "FlushAllAsync43

```
APACHE...  conf > server.xml
> bin
> conf
  > Catalina
    catalina.policy
    catalina.properties
    context.xml
    jaspic-providers.xml
    jaspic-providers.xsd
    logging.properties
    server.xml
    tomcat-users.xml
    tomcat-users.xsd
    web.xml
  > lib
  > logs
  > temp
  > webapps
  > work
  BUILDING.txt
  CONTRIBUTING.md
  LICENSE
  NOTICE
  README.md
  RELEASE-NOTES
  RUNNING.txt
56 <!--
57 <Executor name="tomcatThreadPool" namePrefix="catalina-exec-"
58     maxThreads="150" minSpareThreads="4"/>
59 -->
60
61
62 <!-- A "Connector" represents an endpoint by which requests are received
63      and responses are returned. Documentation at :
64      Java HTTP Connector: /docs/config/http.html
65      Java AJP  Connector: /docs/config/ajp.html
66      APR (HTTP/AJP) Connector: /docs/apr.html
67      Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
68 -->
69 <Connector port="8090" protocol="HTTP/1.1"
70           connectionTimeout="20000" 20초동안 유지해라
71           redirectPort="8443"
72           maxParameterCount="1000" 질문의 개수는 1000개까지만
73           />
74 <!-- A "Connector" using the shared thread pool-->
75 <!--
76 <Connector executor="tomcatThreadPool"
77           port="8080" protocol="HTTP/1.1"
78           connectionTimeout="20000"
79           redirectPort="8443"
80           maxParameterCount="1000"
81           />
82 -->
83 <!-- Define an SSL/TLS HTTP/1.1 Connector on port 8443
84      This connector uses the NIO implementation. The default
85      SSL implementation will depend on the presence of the APR/native
```

tomcat 설치 후, oracle 설치했었는데,
오늘 tomcat 127.0.0.1:8080 주소로 접속하니 tomcat이안뜨고 자꾸 로그인하라고 떴다.
알고보니 oracle과 tomcat 둘다 포트번호 8080 사용해서 겹쳐서 오라클이 뜬 것.
둘 중 하나를 port 번호를바꿔주면 된다.
Apache-tomcat-9.0 - conf - server.xml - 69번째줄 "port=8090" 으로 바꿔주었다.



```
index.jsp x
webapps > ROOT > index.jsp > ? > html > body
1 <%@ page language="java" pageEncoding="UTF-8" contentType="text/html; charset=UTF-8"
2
3
4 <!DOCTYPE html>
5 <html lang="en">
6   <head>
7     <meta charset="UTF-8" />
8     <title>100까지의 합</title>
9
10  </head>
11
12  <body>
13    <%
14      int sum = 0;
15      for(int i = 1; i <= 100; i++){
16        sum = sum+i;
17      }
18    %>
19
20    <p> 1에서 100까지의 합 = <%= sum %> </p>
21  </body>
22
23 </html>
```



jsp는 tomcat만 사용한다

웹서버는 정적파일만 처리한다