

JAVA jdk 설치

① 설치파일 다운로드 및 실행

- ▶ (1-1) <https://www.oracle.com/technetwork/java/javase/downloads>에 접속합니다
- ▶ (1-2) 접속 후 “이 사이트에서 쿠키와 관련된 귀하의 선택” 팝업이 뜨면 선택사항에 모두 [아니오]를 선택 후 [기본설정 제출]을 클릭합니다 (경우에 따라 본 과정은 생략될 수 있습니다)
- ▶ (1-3) 제출이 완료되면 [닫기]를 클릭해 팝업을 닫습니다
- ▶ (1-4) 화면 중앙의 [Java Platform (JDK) + (version)]을 클릭합니다
- ▶ (1-5) 화면 아래 [Accept License Agreement]를 선택하여 라이선스 정책에 동의합니다
- ▶ (1-6) 자신의 PC 운영체제에 해당하는 설치파일 링크를 클릭해 다운로드합니다
(Windows PC는 [jdk-(version)_windows-x64_bin.exe],
Mac OS는 [jdk-(version)-osx-x64_bin.dmg]를 클릭)
- ▶ (1-7) [실행]을 클릭해 다운로드한 파일을 바로 실행합니다

② 설치진행

- ▶ (2-1) [Next >]를 클릭해 설치를 시작합니다
- ▶ (2-2) 설치경로를 그대로 두고 [Next >]를 클릭합니다
- ▶ (2-3) “사용자정의 설치” 창이 뜨면 경로를 그대로 두고 [다음(N) >]을 클릭합니다
- ▶ (2-4) 설치가 완료되면 [close]를 클릭해 설치를 마칩니다

```
import ContainerAware
events import types
framework import events
http.messages import Response, Request
common.imports import get_qualified_name
common.contextmanagers import suppress
_RETURN_TYPES = (str, int, float,)

class ContainerAwareMeta(ABC):
    """The base class for all controllers.

    It provides a default implementation for the execute method.
    """
    __slots__ = ('_action__',)

    def __init__(self, **kwargs):
        super().__init__(**kwargs)
        self._action__ = None

    @abc.abstractmethod
    def execute(self, **kwargs):
        """Execute the controller.

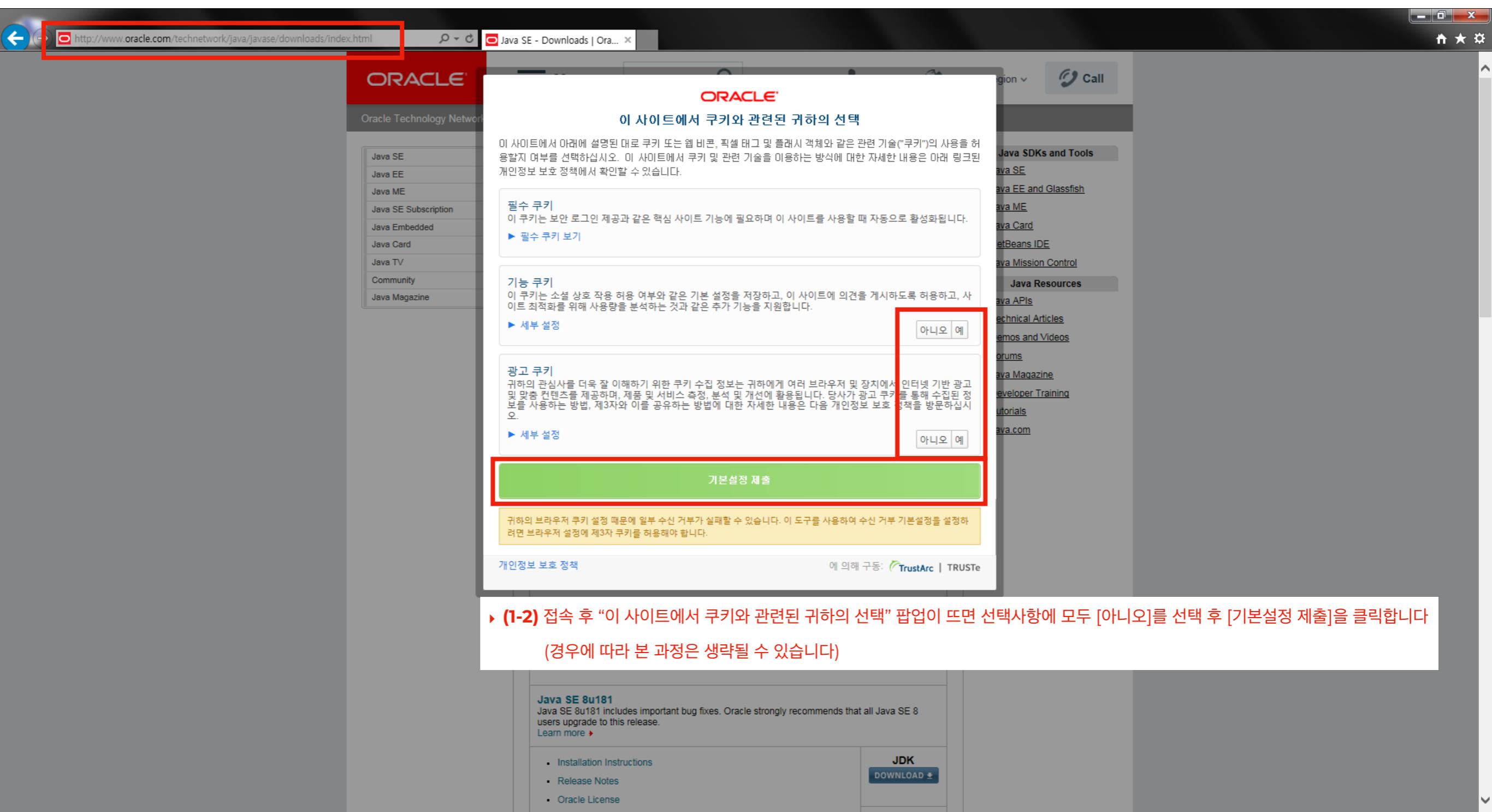
        :param kwargs: A dict of arguments to pass to the execute method.
        :return: The result of the execution.
        """
        method = self.get_execute_method()
        if self._action__ is not None:
            method = self._action__
        return method(**kwargs)

    def get_execute_method(self, **kwargs):
        """Get the execute method.

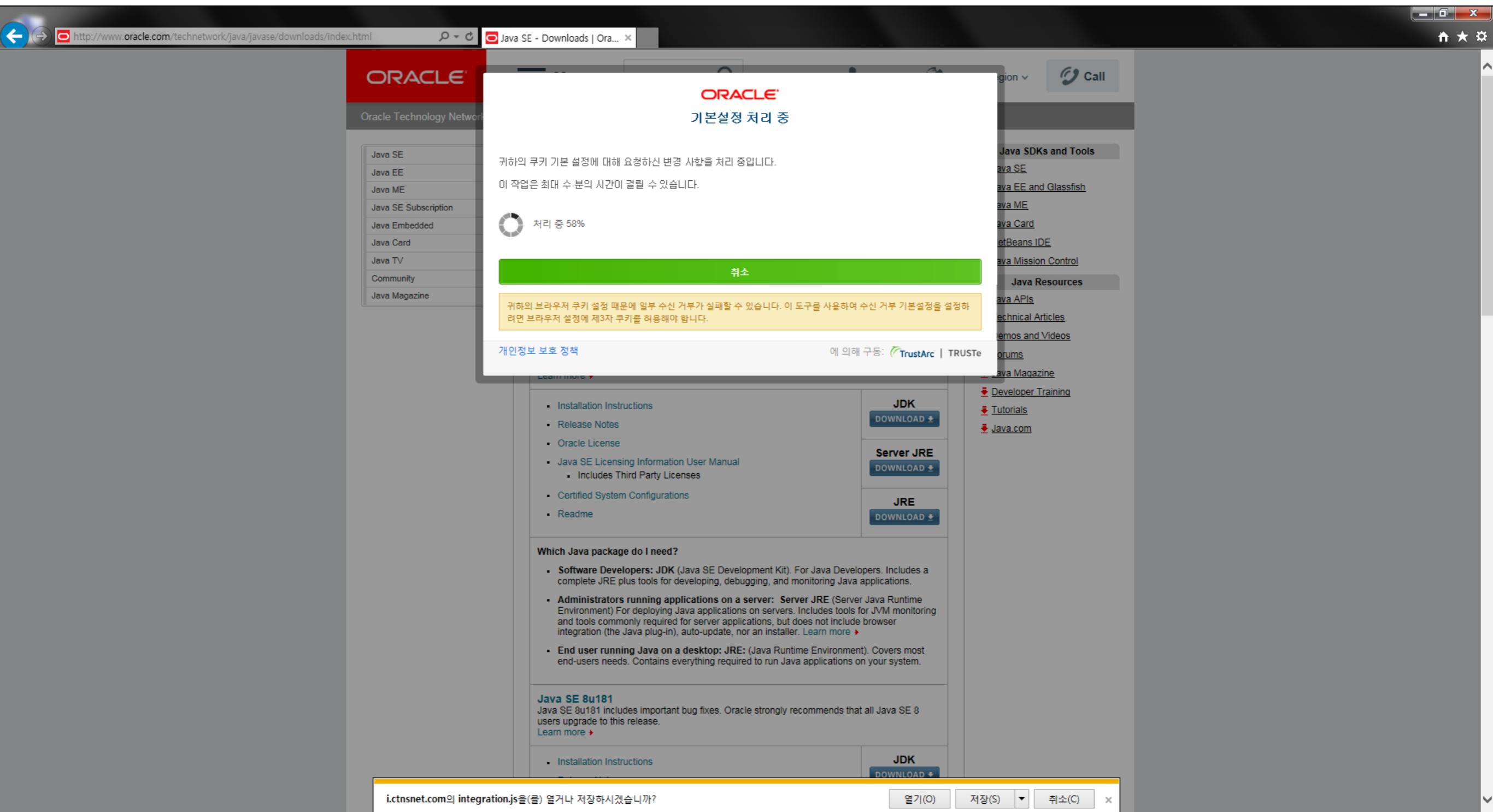
        :param kwargs: A dict of arguments to pass to the execute method.
        :return: The execute method.
        """
        raise NotImplementedError(
            'You must implement the execute method in your controller'
        )
```

JAVA jdk 설치

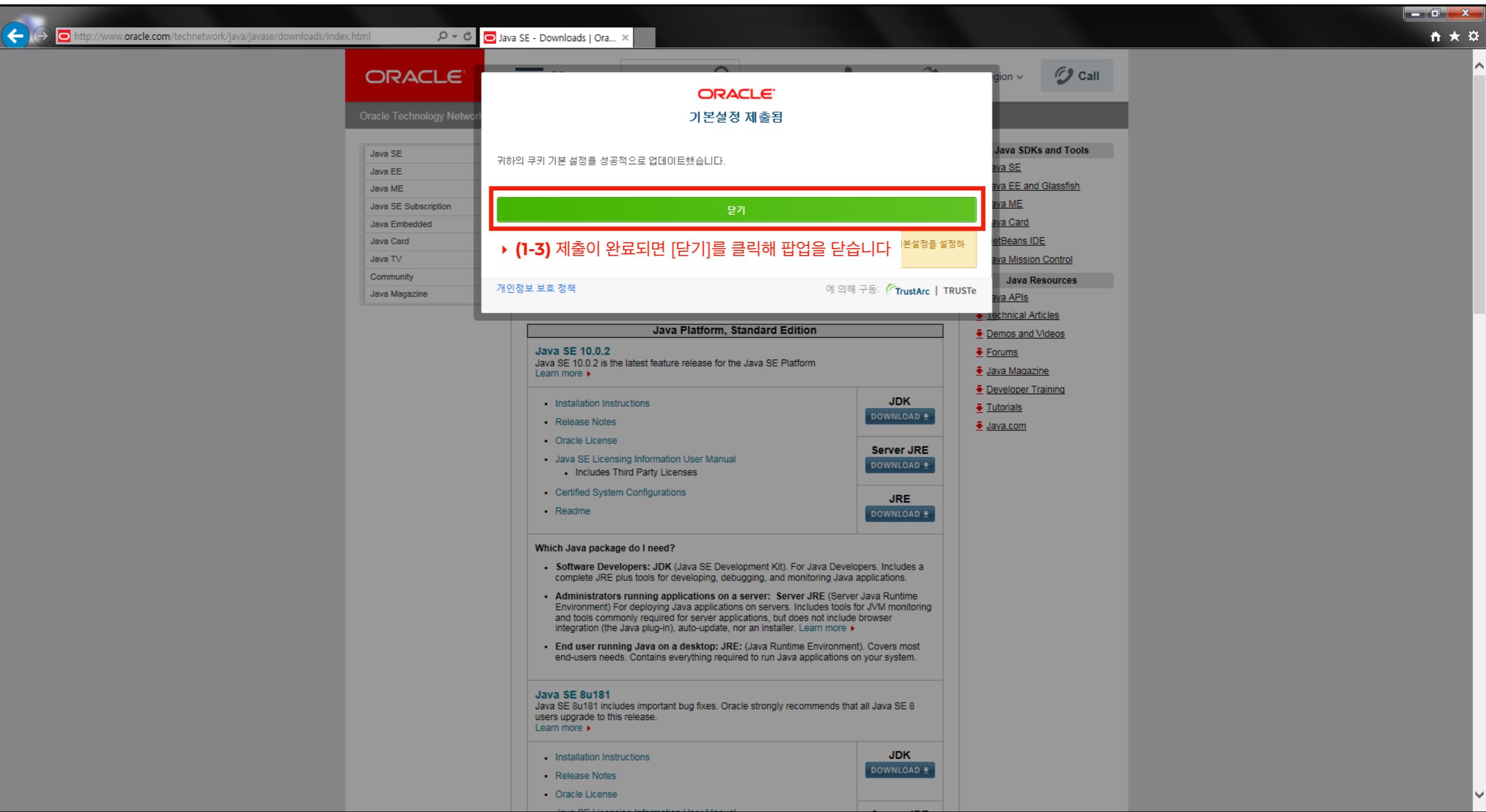
▶ (1-1) <https://www.oracle.com/technetwork/java/javase/downloads/index.html>에 접속합니다



JAVA jdk 설치



JAVA jdk 설치

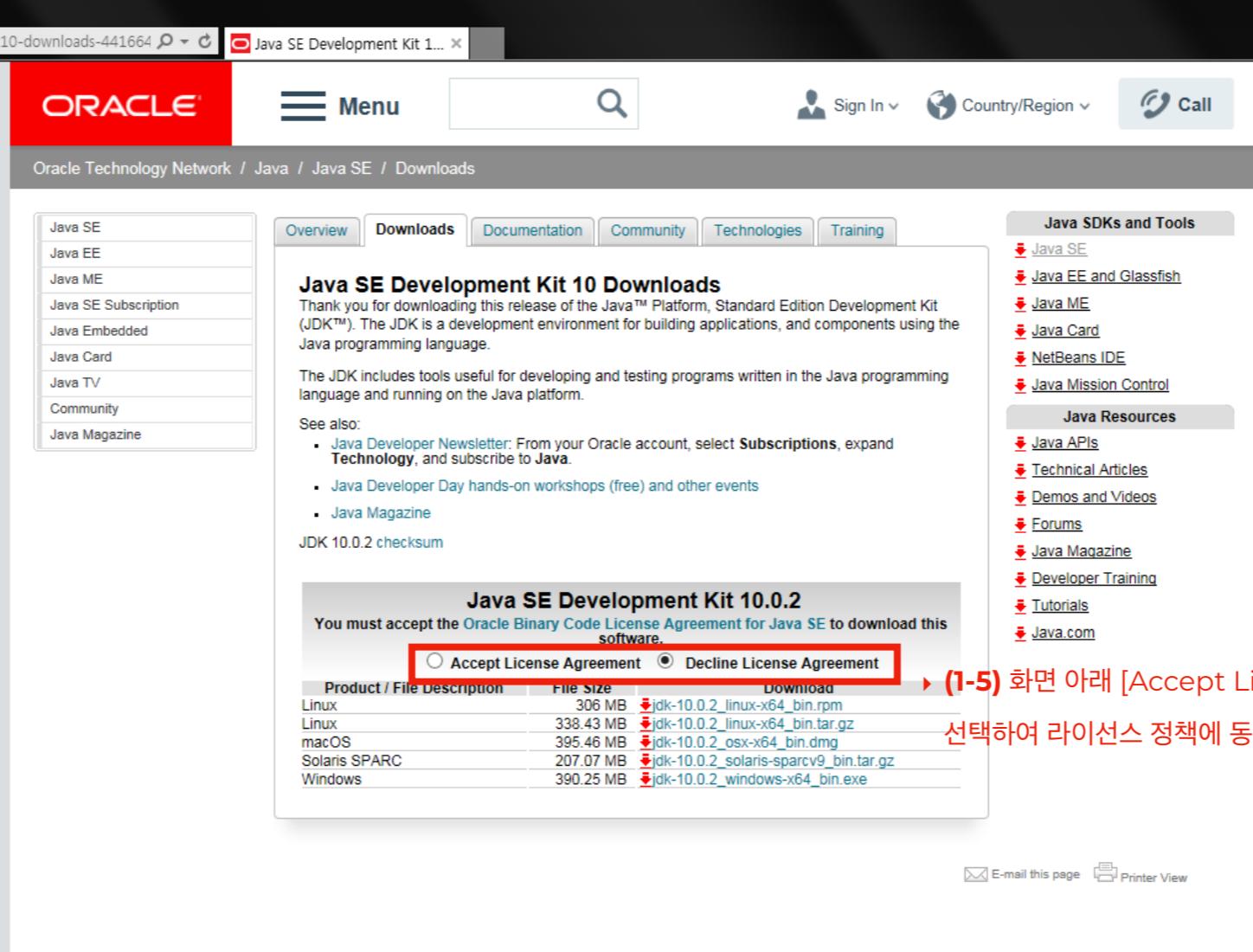


JAVA jdk 설치

The screenshot shows the Oracle Java SE Downloads page. At the top, there's a navigation bar with links for Overview, Downloads (which is selected), Documentation, Community, Technologies, and Training. Below this, the main content area is titled "Java SE Downloads". In the center, there's a large button labeled "Java Platform (JDK) 10" with a "DOWNLOAD" button below it. This central button is highlighted with a red box. To the left of the main content, there's a sidebar with links for Java SE, Java EE, Java ME, Java SE Subscription, Java Embedded, Java Card, Java TV, Community, and Java Magazine. To the right, there are two sections: "Java SDKs and Tools" (with links for Java SE, Java EE and Glassfish, Java ME, Java Card, NetBeans IDE, Java Mission Control) and "Java Resources" (with links for Java APIs and Technical Articles). At the bottom of the main content area, there's a section titled "Which Java package do I need?" with three bullet points: "Software Developers: JDK (Java SE Development Kit). For Java Developers. Includes a complete JRE plus tools for developing, debugging, and monitoring Java applications.", "Administrators running applications on a server: Server JRE (Server Java Runtime Environment) For deploying Java applications on servers. Includes tools for JVM monitoring and tools commonly required for server applications, but does not include browser integration (the Java plug-in), auto-update, nor an installer.", and "End user running Java on a desktop: JRE (Java Runtime Environment). Covers most end-users needs. Contains everything required to run Java applications on your system.".

▶ (1-4) 화면 중앙의 [Java Platform (JDK) + (version)]을 클릭합니다

JAVA jdk 설치



(1-5) 화면 아래 [Accept License Agreement]를 선택하여 라이선스 정책에 동의합니다

Contact Us

- US Sales: +1.800.633.0738
- Global Contacts
- Support Directory
- Subscribe to Emails

About Oracle

- Careers
- Company Information
- Social Responsibility
- Communities

Downloads and Trials

- Java Runtime Download
- Java for Developers
- Software Downloads
- Try Oracle Cloud Free

News and Events

- Acquisitions
- Blogs
- Events
- Newsroom

ORACLE Integrated Cloud Applications & Platform Services

f t in G+ YouTube RSS

JAVA jdk 설치

The screenshot shows the Oracle Java SE Development Kit 10 Downloads page. The page has a red header with the Oracle logo and navigation links for Menu, Sign In, Country/Region, and Call. Below the header, there's a breadcrumb trail: Oracle Technology Network / Java / Java SE / Downloads. On the left, there's a sidebar with links for Java SE, Java EE, Java ME, Java SE Subscription, Java Embedded, Java Card, Java TV, Community, and Java Magazine. The main content area has tabs for Overview, Downloads (which is selected), Documentation, Community, Technologies, and Training. A section titled "Java SE Development Kit 10 Downloads" contains text about the JDK and its tools. Below this, a "See also:" section lists Java Developer Newsletter, Java Developer Day workshops, and Java Magazine. A "JDK 10.0.2 checksum" link is also present. A "Java SE Development Kit 10.0.2" section contains a note about accepting the Oracle Binary Code License Agreement. A table of download links for various operating systems is shown, with the Windows row highlighted by a red box. The table columns are Product / File Description, File Size, and Download. The rows are: Linux (306 MB, [jdk-10.0.2_linux-x64_bin.rpm](#)), Linux (338.43 MB, [jdk-10.0.2_linux-x64_bin.tar.gz](#)), macOS (395.46 MB, [jdk-10.0.2_osx-x64_bin.dmg](#)), Solaris SPARC (207.07 MB, [jdk-10.0.2_solaris-sparcv9_bin.tar.gz](#)), and Windows (390.25 MB, [jdk-10.0.2_windows-x64_bin.exe](#)). At the bottom of the page, there are footer sections for Contact Us, About Oracle, Downloads and Trials, News and Events, and social media links.

▶ (1-6) 자신의 PC 운영체제에 해당하는 설치파일 링크를 클릭해 다운로드합니다
(Windows PC는 [jdk-(version)_windows-x64_bin.exe], Mac OS는 [jdk-(version)-osx-x64_bin.dmg]를 클릭)

Product / File Description	File Size	Download
Linux	306 MB	jdk-10.0.2_linux-x64_bin.rpm
Linux	338.43 MB	jdk-10.0.2_linux-x64_bin.tar.gz
macOS	395.46 MB	jdk-10.0.2_osx-x64_bin.dmg
Solaris SPARC	207.07 MB	jdk-10.0.2_solaris-sparcv9_bin.tar.gz
Windows	390.25 MB	jdk-10.0.2_windows-x64_bin.exe

Contact Us
US Sales: +1.800.633.0738
Global Contacts
Support Directory
Subscribe to Emails

About Oracle
Careers
Company Information
Social Responsibility
Communities

Downloads and Trials
Java Runtime Download
Java for Developers
Software Downloads
Try Oracle Cloud Free

News and Events
Acquisitions
Blogs
Events
Newsroom

Integrated Cloud
Applications & Platform Services

Follow Us: [Facebook](#) [Twitter](#) [LinkedIn](#) [Google+](#) [YouTube](#) [RSS](#)

JAVA jdk 설치

The screenshot shows the Oracle Java SE Development Kit 10 Downloads page. The URL in the browser is <http://www.oracle.com/technetwork/java/javase/downloads/jdk10-downloads-441664>. The page features a red header with the Oracle logo and navigation links for Menu, Sign In, Country/Region, and Call. A sidebar on the left lists Java SE, Java EE, Java ME, Java Subscription, Java Embedded, Java Card, Java TV, Community, and Java Magazine. The main content area has tabs for Overview, Downloads (which is selected), Documentation, Community, Technologies, and Training. Below the tabs, a section titled "Java SE Development Kit 10 Downloads" explains the purpose of the JDK and its tools. It includes a "See also:" list with links to Java Developer Newsletter, Java Developer Day, and Java Magazine. A "JDK 10.0.2 checksum" link is also present. A "Java SE Development Kit 10.0.2" section contains a note about accepting the Oracle Binary Code License Agreement and a table of download links for various operating systems. The right sidebar contains sections for "Java SDKs and Tools" (links to Java SE, Java EE and Glassfish, Java ME, Java Card, NetBeans IDE, and Java Mission Control) and "Java Resources" (links to Java APIs, Technical Articles, Demos and Videos, Forums, Java Magazine, Developer Training, Tutorials, and Java.com). At the bottom, there are links for E-mail this page and Printer View. The footer contains sections for Contact Us, About Oracle, Downloads and Trials, and News and Events. A yellow bar at the bottom asks if the user wants to run or save the downloaded file. A red callout box highlights the "실행(R)" (Run) button with the text "(1-7) [실행]을 클릭해 다운로드한 파일을 바로 실행합니다" (Click [Run] to execute the downloaded file immediately).

Java SE Development Kit 10 Downloads

You must accept the [Oracle Binary Code License Agreement for Java SE](#) to download this software.

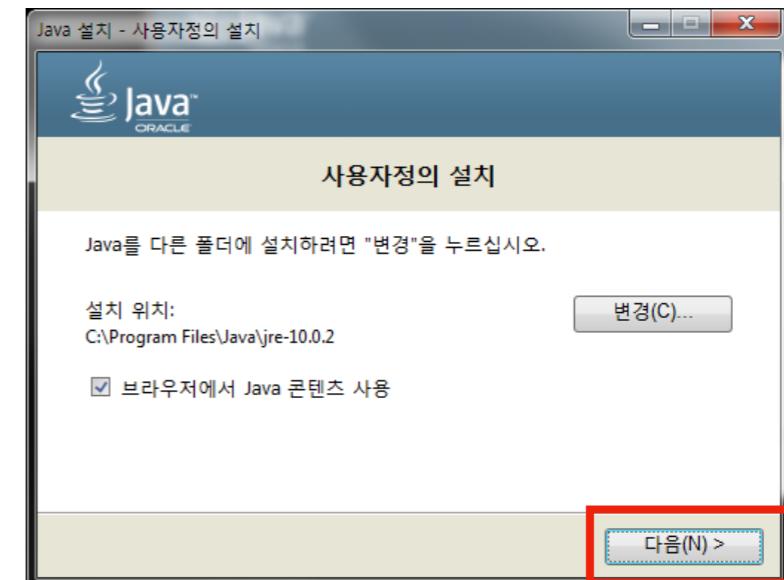
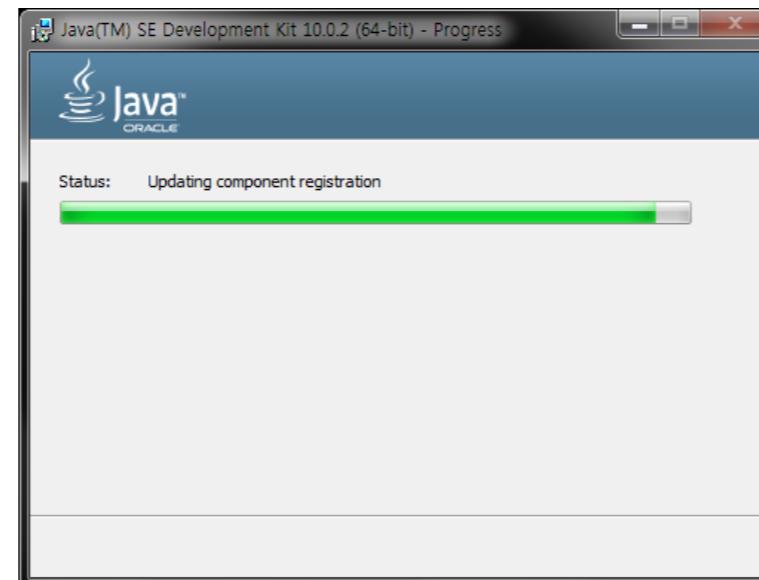
Product / File Description	File Size	Download
Linux	306 MB	jdk-10.0.2_linux-x64_bin.rpm
Linux	338.43 MB	jdk-10.0.2_linux-x64_bin.tar.gz
macOS	395.46 MB	jdk-10.0.2_osx-x64_bin.dmg
Solaris SPARC	207.07 MB	jdk-10.0.2_solaris-sparcv9_bin.tar.gz
Windows	390.25 MB	jdk-10.0.2_windows-x64_bin.exe

(1-7) [실행]을 클릭해 다운로드한 파일을 바로 실행합니다

JAVA jdk 설치



▶ (2-1) [Next >]를 클릭해 설치를 시작합니다



▶ (2-2) 설치경로를 그대로 두고 [Next >]를 클릭합니다



▶ (2-3) “사용자정의 설치” 창이 뜨면 경로를 그대로 두고

[다음(N) >]을 클릭합니다



▶ (2-4) 설치가 완료되면 [close]를 클릭해 설치를 마칩니다

환경변수 설정

* MAC OS를 사용하시는 분은 본 과정을 생략해주세요

① 설치된 개발환경에 대해 어디서든 호출할 수 있도록 환경변수로 등록

- ▶ (1-2) 좌측의 [고급 시스템 설정]을 클릭합니다
- ▶ (1-3) [고급] 탭을 선택하고 아래 [환경변수]를 클릭합니다
- ▶ (1-4) 아래 두번째 [새로 만들기(W)...]를 클릭합니다
- ▶ (1-5) “변수 이름(N)”에 “JAVA_HOME”, “변수 값(V)”에 “C:\Program Files\Java\jdk-(version)”를 입력한 후 [확인]을 클릭합니다 (version은 JAVA jdk 경로 C:\Program Files\Java\... 를 찾아가 확인, Window 10 사용자는 오른쪽 [새로 만들기(N)]를 클릭해 추가)
- ▶ (1-6) 아래 “시스템 변수(S)” 목록 중 변수 이름이 “Path”인 항목을 선택하고 [편집(I)...]을 클릭합니다
- ▶ (1-7) “변수 값(V)”에 기존 입력된 텍스트 맨 뒤에 “%JAVA_HOME%\bin;”을 입력하고 [확인]을 클릭합니다
- ▶ (1-8) 계속 [확인]을 클릭해 모든 열었던 창을 모두 닫습니다

② 설치확인

- ▶ (2-1) 바탕화면에서 [시작]을 클릭하고 “cmd”를 입력해 “cmd” 명령창을 실행합니다
- ▶ (2-2) “java -version”을 입력하고 [엔터]를 입력합니다
- ▶ (2-3) “java (version) (날짜) ...”가 출력되면 환경변수 설정이 완료됩니다

```
import ContainerAware
events import types
framework import events
http.messages import Response, Request
common.imports import get_qualified_name
.common.contextmanagers import suppress
._RETURN_TYPES = (str, int, float,
                   bool, NoneType)
@abc.abstractmethod
class Controller(ContainerAware, metaclass=abc.ABCMeta):
    """The base class for all controllers.

    It defines the common interface for controllers.
    """
    __slots__ = ('__action__',)

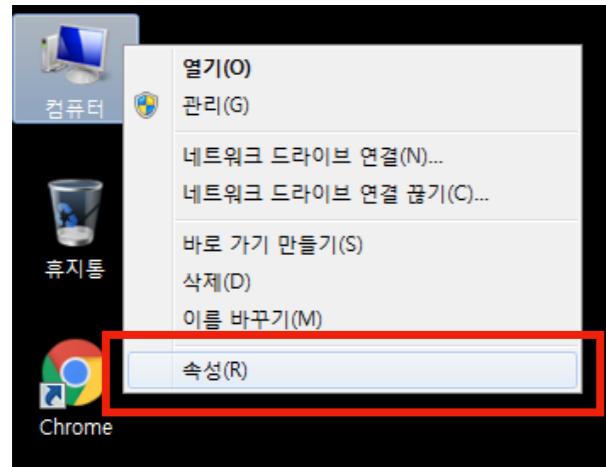
    @abc.abstractproperty
    def attributes(self):
        """Attributes: the list of attributes defined by the controller.

        This is used for generating the configuration file.
        """
        return self.__action__.attributes

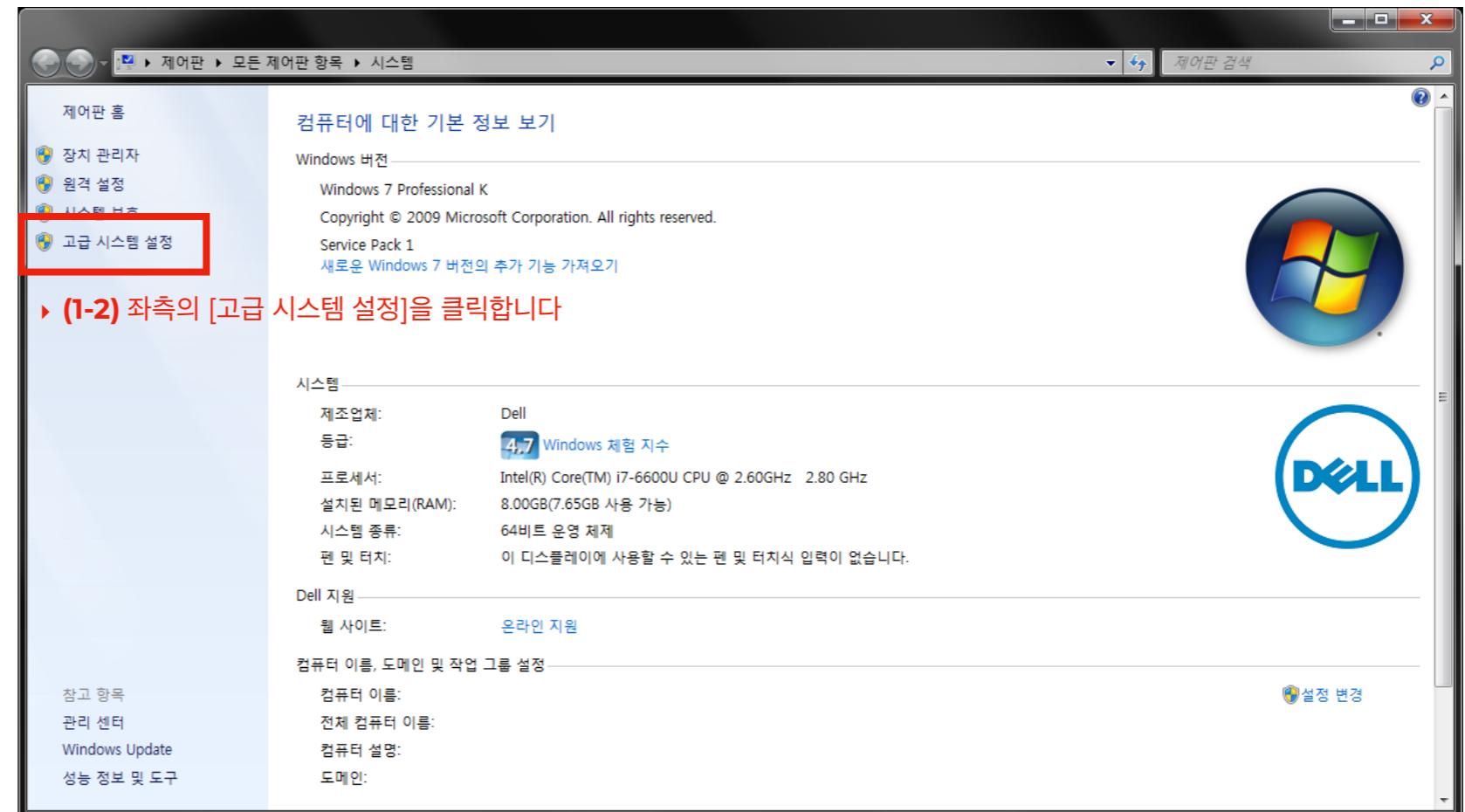
    @abc.abstractmethod
    def execute(self, **kwargs):
        """execute(self, **kwargs):
        :param kwargs: keyword arguments
        :return: execute method result
        """
        method = self.get_execute_method()
        self.__action__ = method
        return method(**kwargs) or None

    @abc.abstractmethod
    def get_execute_method(self, *args, **kwargs):
        """get_execute_method(self, *args, **kwargs):
        :param args: positional arguments
        :param kwargs: keyword arguments
        :return: execute method
        """
        raise NotImplementedError(
            'You must implement get_execute_method()'
        )
```

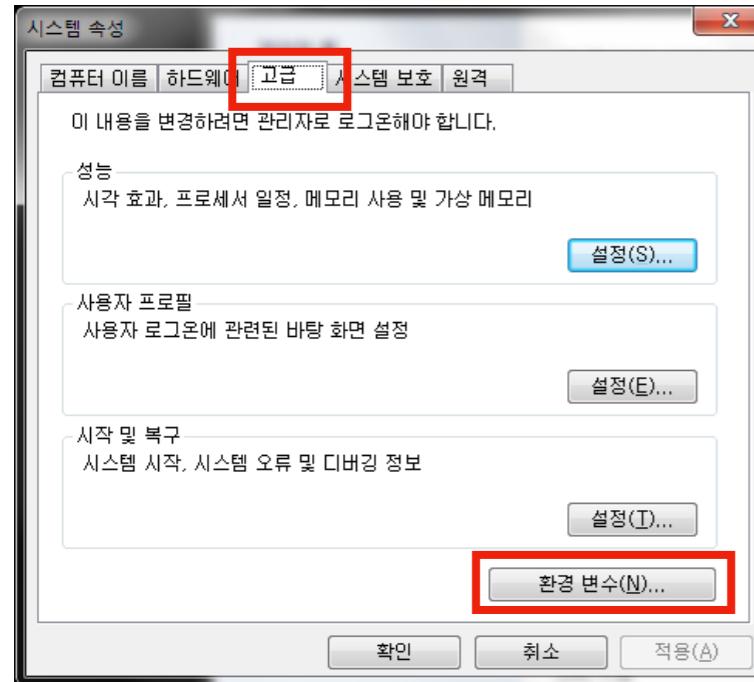
환경변수 설정



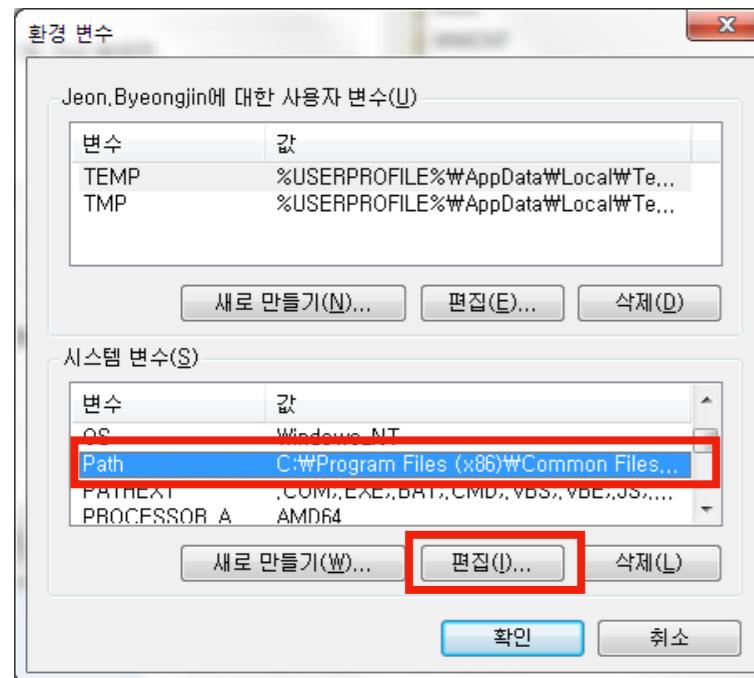
▶ (1-1) 바탕화면의 “내컴퓨터” 아이콘에서 마우스 오른쪽을 클릭한 후 [속성]을 클릭합니다



환경변수 설정

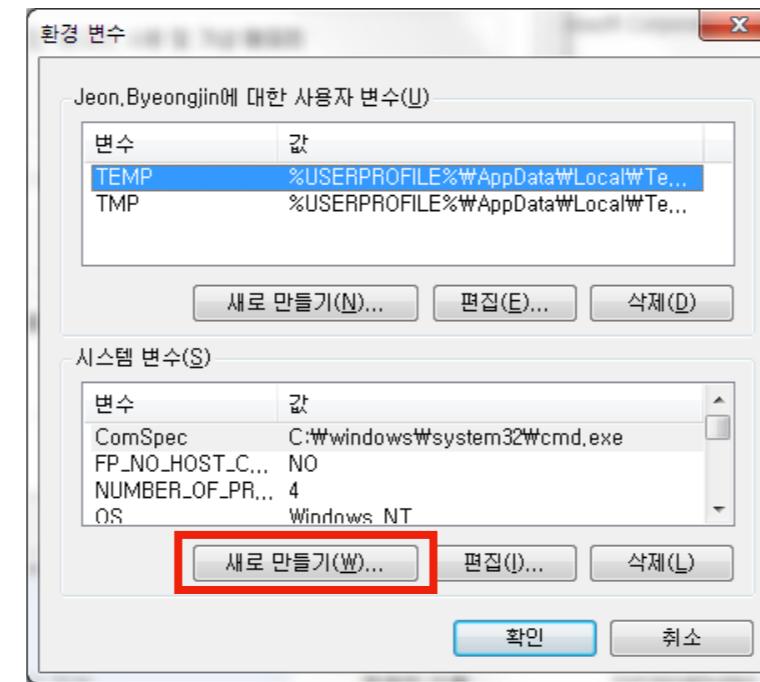


▶ (1-3) [고급] 탭을 선택하고 아래 [환경변수]를 클릭합니다

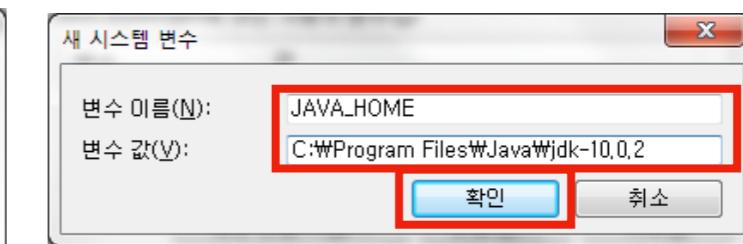
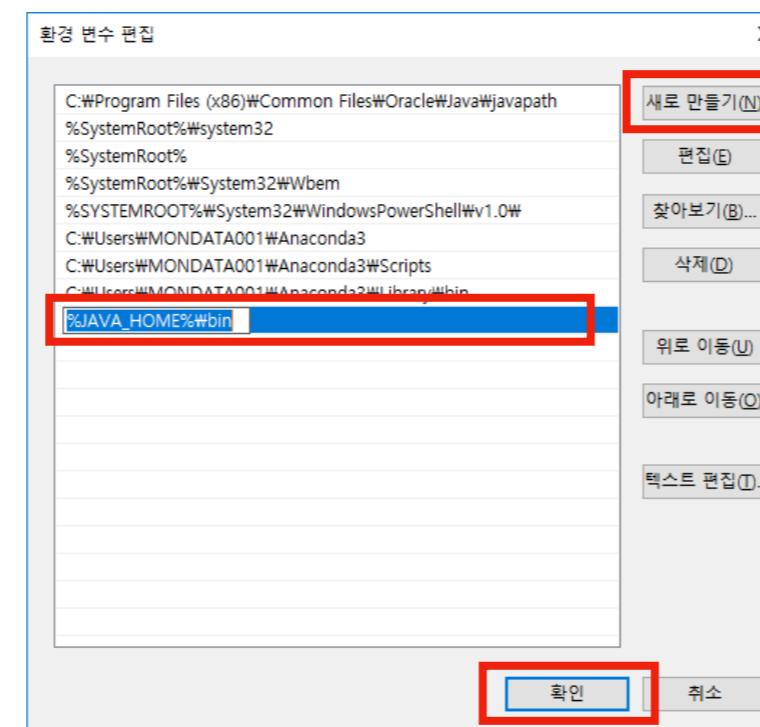


▶ (1-6) 아래 “시스템 변수(S)” 목록 중 변수 이름이

“Path”인 항목을 선택하고 [편집(I)...]을 클릭합니다



▶ (1-4) 아래 두번째 [새로 만들기(W)...]를 클릭합니다



▶ (1-5) “변수 이름(N)”에 “JAVA_HOME”, “변수 값(V)”에 “C:\Program Files\Java\jdk-(version)”를 입력한 후 [확인]을 클릭합니다
(version은 JAVA jdk 경로 C:\Program Files\Java\... 를 찾아가 확인, Window 10 사용자는 오른쪽 [새로 만들기(N)]를 클릭해 추가)

▶ (1-7) [새로 만들기(N)]을 클릭하고 “%JAVA_HOME%\bin”을 입력 후 [확인]을 클릭합니다

▶ (1-8) 계속 [확인]을 클릭해 모든 열었던 창을 모두 닫습니다

환경변수 설정



▶ (2-1) 바탕화면에서 [시작]을 클릭하고 “cmd”를
입력해 “cmd” 명령창을 실행합니다

```
C:\> C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright <c> 2009 Microsoft Corporation. All rights reserved.

C:\> java --version
```

▶ (2-2) “java -version”을 입력하고 [엔터]를 입력합니다

```
C:\> C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright <c> 2009 Microsoft Corporation. All rights reserved.

C:\> java --version
java 10.0.2 2018-07-17
Java(TM) SE Runtime Environment 18.3 (build 10.0.2+13)
Java HotSpot(TM) 64-Bit Server VM 18.3 (build 10.0.2+13, mixed mode)

C:\>
```

▶ (2-3) “java (version) (날짜) ...”가 출력되면 환경변수 설정이 완료됩니다
(설치된 버전은 유저마다 다를 수 있습니다)

E.O.D