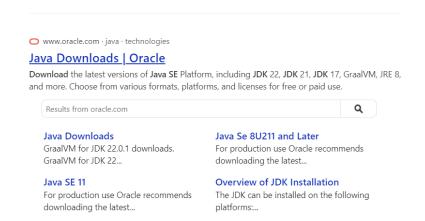
Date: 7/12/24

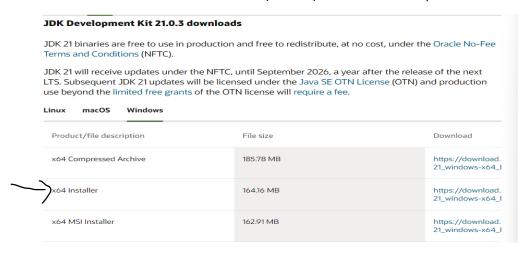
#### **ASSIGNMENT 1**

#### JENKINS INSTALLATION FOR WINDOWS

Step 1: Go to google or browser and type JDK download.

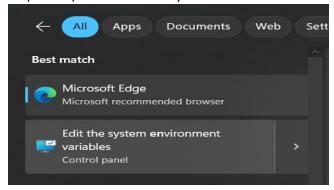


Step 2 : - Open java downloads and windows I am downloading JDK 21 version click on the x64 installer and download with 164.16MB (file size) . based on our requirements .

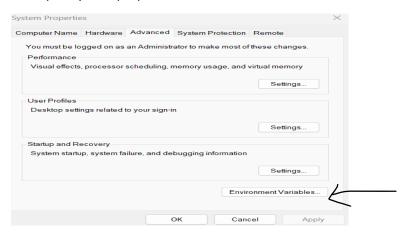


Step 3:- click on the 'This PC' in our desktop or in file explore and set up the JDK.

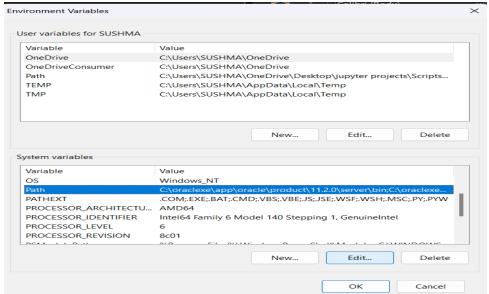
Step 4: - open the edit the system environment variables in search bar in our system.



## And open system properties and click on the environment variables



Step 5: - and choose the below path and click on the edit .



Edit environment variable C:\oraclexe\app\oracle\product\11.2.0\server\bin New C:\Program Files\Python311\Scripts\ Edit C:\Program Files\Python311\ C:\Program Files\Common Files\Oracle\Java\javapath Browse... %SystemRoot%\system32 %SystemRoot% Delete %SystemRoot%\System32\Wbem %SYSTEMROOT%\System32\WindowsPowerShell\v1.0\ %SYSTEMROOT%\System32\OpenSSH\ Move Up C:\Program Files\Java\jdk-20\bin C:\Program Files\Git\cmd Move Down C:\Program Files (x86)\Git\cmd C:\Program Files\nodejs C:\Users\SUSHMA\my-app Edit text... C:\Program Files\nodejs\ C:\Program Files\Java\jdk-21 Sushma Chirukuri (sushmachiru OK Cancel ОК Cancel

And next choose the jdk path we have downloaded in the previous section and click on the new & copy .

And click ok close.

### What is Jenkins?

It is open-source automation server and it facilitates the continuous integration and delivery of software projects .

And widely used to automate tasks related to building ,testing,and deploying software making the development process and more efficient and reliable.

## Main aspects are:

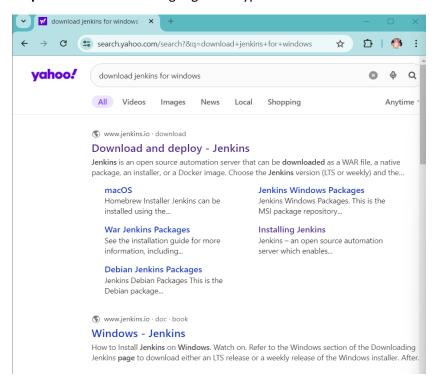
- 1.automation of tasks
- 2.extensbility
- 3.pipeline as code
- 4. distributed builds
- 5.integration with Version control systems
- 6.monitoring and reporting

## Benefits of using Jenkins:

- 1.improves code quality
- 2.it gives faster feedback
- 3.increasced productivity

## Installation of Jenkins:

**Step 1**: Go the chrome or google and type download Jenkins for windows .



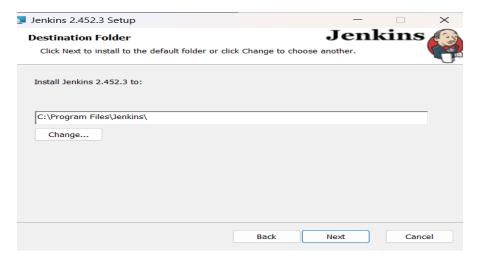
**Step 2**: click on the download and deploy Jenkins and download Jenkins 2.452.3 LTS and download windows .



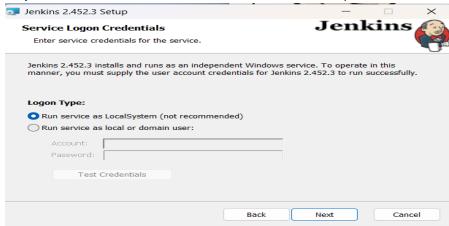
**Step 3**: - run the download in '.msi' installer . go the file explore or 'this pc' installed by Jenkins. And double click and click on next .



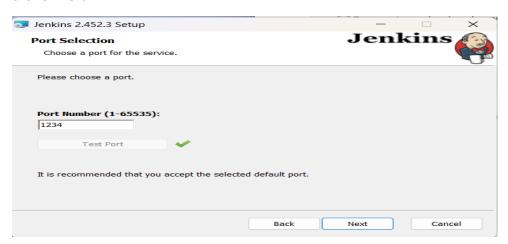
**Step 4**: - this is in C drive if we want to change we have an option to change the d drive or f drive . and click on the next .



Step 5: - and we have to run on the run service as local system .and click on the next .



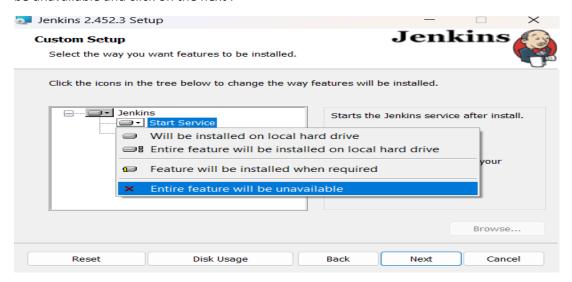
**Step 6**: - from this we can give port number between 1 - 65535 we can give any number . for example I am giving 1234 as an example .and we have to test port as given to check valid or not if it is valid and click on next.



Step 7 : - the path we downloaded jdk version 21 if we want to change we can change the path of program files and click on next .



**Step 8**: - we have to change the custom setup and click on start service and choose 'emtire feature will be unavailable and click on the next.



Step 9: - and next click on install.



Step 10: - click on finish.



**Step 11**: - go the file explore and open program files in program files we have Jenkins that we have installed.

Name	Date modified	Type	Size
ienkins.exe	7/10/2024 1:24 PM	Application	606 KB
jenkins.exe.config	7/10/2024 4:59 PM	Configuration Sou	1 KB
] Jenkins.war	7/10/2024 4:25 PM	WAR File	91,210 KB
jenkins.xml	7/12/2024 4:06 PM	XML File	3 KB

Step 12: - from this Jenkins files we have to open Jenkins.xml open in notepad.

```
interactive flag causes the empty black Java window to be displayed.

I'm still debugging this.

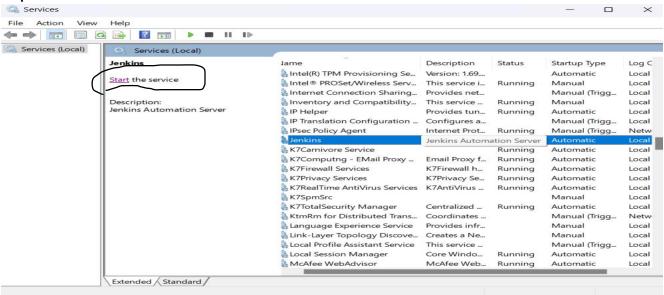
<interactive />
->
</order=">
</order="1">
<order="1">
<order
```

**Step 13**: from <pidfile> we have to change from the <pidfile>C:\Program Files \Jenkins\jenkins.pid</pidfile>

Step 14: And next open run in search and open services in our system.



**Step 15**: click on Jenkins and start the service as shown.



Step 16: And open the new browser and type localhost:1234 after we have to sign in to Jenkins.

We have to enter username and password.

# Sign in to Jenkins

Username
sushma
Password
Keep me signed in
Sign in

Step 17: the Jenkins will opened

