Tutorial: Installation of JDK and Build Tools on Windows OS

Section-I : Installation of JDK and Git on Windows 8 OS

1. Download the software packages and follow the installation steps exactly as demonstrated in the video.

2. The installation steps may vary on **Windows 8**. You may see a different interface on your system or your system may ask for extra/less information than that demonstrated in the video.

3. In case, If your system prompts for additional permissions, you should provide the permissions by clicking **Yes/Run/Accept/OK/Install** buttons.

4. In case, If your system prompts for additional configurations, you should keep the default configurations by clicking **Yes/Run/Accept/OK/Install** buttons.

Section-II :: Setting Environment Variable for JDK, Maven and Ant on Windows 8 OS

Prerequisite:

1. You should have installed **JDK**, **Maven** and **Ant**.

2. Installation directory paths for **JDK**, **Maven** and **Ant** must match to the Installation directory paths shown in the video.

1. Go to This PC/My Computer.



2. Right-click on This PC/My Computer and select Properties.



System dialog box is displayed.

2	Sys	stem	-	
🔄 🎯 👻 🏦 🕎 🖌 Control	Panel → System and Security → Sy	vstem v C	Search Control Panel	,
Control Panel Home	View basic information	about your computer		
Device Manager	Windows edition			
Remote settings	Windows 8.1 Pro		W (W)	
System protection	© 2013 Microsoft Corpora	tion.	lindows	8
Advanced system settings	All rights reserved.		1100005	U
	System			
	Processor:	Intel(R) Core(TM) i3-2120 CPU	@ 3.30GHz 3.29 GHz	
	Installed memory (RAM):	5.04 GB		
	System type:	64-bit Operating System, x64-b	based processor	
	Pen and Touch:	No Pen or Touch Input is avail	able for this Display	
	Computer name, domain, and	l workgroup settings		
	Computer name:	spoken	🚱 Change	settings
	Full computer name:	spoken		
	Computer description:			
	Workgroup:	WORKGROUP		
	Windows activation			
	Windows is not activated.	Read the Microsoft Software Lie	cense Terms	
See also	Product ID: 00261-50000-0	00000-AA989	Activate V	Vindow
Action Center				
Windows Update				

3. Click on the Advanced system settings from the left panel.



System Properties dialog box is shown.

	S	System Pro	operties	
Computer Name	Hardware	Advanced	System Protection	Remote
You must be lo Performance	gged on as a	an Administra	tor to make most of t	hese changes.
Visual effects	, processor s	cheduling, m	emory usage, and vi	tual memory
				Settings
User Profiles				
Desktop settin	ngs related to	o your sign-in		
				Settinge
				Settings
Startup and R	lecovery			
System startu	p, system fai	lure, and deb	ugging information	
				Settings
			Environme	ent Variables
		ОК	Cancel	Apply
		ОК	Cancel	App

4.Ensure that the **Advanced** tab is selected in the **System Properties** dialog box and click on the **Environment Variables** button.

Computer Name	Hardware	Advanced	System Protection	Remote
You must be lo	gged on as a	an Administra	tor to make most of t	hese change
Performance				
Visual effects,	processor s	cheduling, m	emory usage, and vir	tual memory
			_	
				Settings
User Profiles				
Desktop settir	nas related to	vour sign-in		
		,		
				Settings
<u>.</u>				
Startup and R	ecovery			
System startup	o, system fail	ure, and deb	ugging information	
				Settings
				-
			Environme	ent Variables

Environment Variables dialog box is shown.

Variable	Value	
TEMP	%USERPROFILE%\AppData\Local\Tem	р
TMP	%USERPROFILE%\AppData\Local\Tem	p
	New Edit De	lete
ystem variables Variable	Value	~
ystem variables Variable ComSpec	Value C:\Windows\system32\cmd.exe	^
ystem variables Variable ComSpec FP_NO_HOST_C	Value C:\Windows\system32\cmd.exe NO	^
ystem variables Variable ComSpec FP_NO_HOST_C NUMBER_OF_P	Value C:\Windows\system32\cmd.exe NO 1	^
variables Variable ComSpec FP_NO_HOST_C NUMBER_OF_P OS	Value C:\Windows\system32\cmd.exe NO 1 Windows_NT	-

5.In the **Environment Variables** dialog box, click on the **New button** in the **User variable** section.

Variable	Value	
TEMP	%USERPROFILE%\AppData\L	ocal\Temp
TMP	%USERPROFILE%\AppData\L	ocal\Temp
1	New Edit	Delete
ystem variables		
ystem variables Variable	Value	
ystem variables Variable ComSpec	Value C: \Windows\system32\cmd.ex	(e
ystem variables Variable ComSpec FP_NO_HOST_C	Value C:\Windows\system32\cmd.ex NO	(e
vstem variables Variable ComSpec FP_NO_HOST_C NUMBER_OF_P	Value C:\Windows\system32\cmd.ex NO 1	(e
vstem variables Variable ComSpec FP_NO_HOST_C NUMBER_OF_P OS	Value C:\Windows\system32\cmd.ex NO 1 Windows_NT	(e

New User Variable dialog box opens up.

Ne	w User Variable	
Variable name:		
Variable value:		

6. To create a **user variable** for **JDK**, enter the **Variable name** as **JAVA_HOME** and **Variable values** as **C:\Program Files\Java\jdk1.8.0_271**.

	New User Variable	
Variable name:	JAVA_HOME	
Variable value:	C:\Program Files\Java\jd	k1.8.0_271
	OK	Cancel

7. Click the **OK** button to save the variable.

		-
Variabl <mark>e name:</mark>	JAVA_HOME	
Variable value:	C:\Program Files\Java	\jdk1.8.0_271
	ОК	Cancel

Newly created **JAVA_Variable** is shown in the **Environment Variables** dialog box as shown.

valiable	Value	
JAVA_HOME	C:\Program Files\Java\jdk1.8.0_271	
TEMP TMP	%USERPROFILE%\AppData\Local\Temp %USERPROFILE%\AppData\Local\Temp	
1	New Edit Delete	
ystem variables		
ystem variables Variable	Value	^
vstem variables Variable ComSpec	Value C:\Windows\system32\cmd.exe	^
vstem variables Variable ComSpec FP_NO_HOST_C NIMBER_OF_P	Value C:\Windows\system32\cmd.exe NO	^
vstem variables Variable ComSpec FP_NO_HOST_C NUMBER_OF_P OS	Value C:\Windows\system32\cmd.exe NO 1 Windows_NT	

8. Similarly, create **MAVEN_HOME** and **ANT_HOME** variables.

Setting User Variable for Maven

ariable name:	MAVEN_HOME
/ariable value:	C:\apache-maven-3.6.3

/ariable	Value	1
AVA HOME	C:\Program Files\Java\idk1.8.0 271	
MAVEN_HOME	C:\apache-maven-3.6.3	
remp TMP	%USERPROFILE%\AppData\Local\Temp %USERPROFILE%\AppData\Local\Temp	,
[New Edit Dele	te
stem variables /ariable	Value	,
stem variables /ariable ComSpec	Value C:\Windows\system32\cmd.exe	í
stem variables /ariable ComSpec FP_NO_HOST_C NUMBER_OF_P	Value C:\Windows\system32\cmd.exe NO 1	1
stem variables /ariable	Value	

Setting User Variable for Ant

and the second second	
/ariable name:	ANT_HOME
/ariable value:	C:\apache-ant-1.10.9

variable	Value	1
ANT_HOME	C:\apache-ant-1.10.9	L
JAVA_HOME	C:\Program Files\Java\jdk1.8.0_271	
MAVEN_HOME	C:\apache-maven-3.6.3	
TEMP	%USERPROFILE%\AppData\Local\Temp	
	New Edit Delete	
ystem variables		
ystem variables Variable	Value	^
ystem variables Variable ComSpec	Value C:\Windows\system32\cmd.exe	^
vstem variables Variable ComSpec FP_NO_HOST_C	Value C:\Windows\system32\cmd.exe NO	^
variable Variable ComSpec FP_NO_HOST_C NUMBER_OF_P	Value C:\Windows\system32\cmd.exe NO 1	`
variables Variable ComSpec FP_NO_HOST_C NUMBER_OF_P OS	Value C:\Windows\system32\cmd.exe NO 1 Windows_NT	· · ·

9. Next, proceed for setting the **Path variable** in the **System Variables** section.

Select the **Path variable** in the **System Variables** section **and** click the **Edit** button.

Variable	Value	1	
ANT_HOME	C:\apache-ant-1.10.9		
JAVA_HOME	C:\Program Files\Java\jdk1.8.0_271		
MAVEN_HOME	C:\apache-maven-3.6.3		
TEMP	%USERPROFILE%\AppData\Local\Temp	Y	
	New Edit Delete	82	
ystem variables	New Edit Delete		
ystem variables Variable	New Edit Delete		
ystem variables Variable OS	New Edit Delete Value Windows_NT	-	
ystem variables Variable OS Path	New Edit Delete Value Value Windows_NT C:\Windows\system32;C:\Windows;C:\	·	
ystem variables Variable OS Path PATHEXT PROCESSOR_A	New Edit Delete Value Value Windows_NT C:\Windows\system32;C:\Windows;C:\ .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS; . AMD64		

Edit System Variable dialog box is displayed with the current Path variable value.

	Edit Syste	m Variable	×
Variable name:	Path		
Variable value:	OT%\Sys	tem32\WindowsF	owerShell\v1.0
		ОК	Cancel

10. Move the **Text cursor** to the end of the existing **Path variable** and enter ; (semicolon) symbol.

Variable name:	Path
Variable value:	01%\System32\WindowsPowerShell\v1.0

11. Next append the path of **bin** directories of **JDK**, **Maven** and **Ant** as shown below. **C:\Program**

Files\Java\jdk1.8.0_271\bin;C:\apache-maven-3.6.3\bin;C:\apache-ant-1.10.9\bin

	Edit Syster	n Variable	
Variable name:	Path		
Variable value:	naven-3.6.	9\bin;C:\apache	e-ant-1.10.9\bin
		-	

12.Click the **OK** button to save the **Path** variable.

	Edit System Variable	
Variable <mark>nam</mark> e:	Path	
Variable value:	naven-3.6.9\bin;C:\apache-ant	-1.10.9\bin
	ОК	Cancel

13.Click the **OK** button in the **Environment Variable** dialog box.

Variable	Value		1
ANT_HOME	C:\apache-ant	-1, 10, 9	
JAVA_HOME MAVEN_HOME TEMP	C:\Program File C:\apache-ma %USERPROFI	C:\Program Files\Java\jdk1.8.0_271 C:\apache-maven-3.6.3 %USERPROFILE%\AppData\Local\Temp	
	New	Edit	Delete
/stem variables			
ystem variables Variable	Value		
ystem variables Variable ComSpec	Value C: \Windows\s	ystem32\cmd.exe	
ystem variables Variable ComSpec FP_NO_HOST_C	Value C:\Windows\sy	ystem32\cmd.exe	
ystem variables Variable ComSpec FP_NO_HOST_C NUMBER_OF_P	Value C:\Windows\sy . NO 1	ystem32\cmd.exe	

14. Click the **OK** button in the **System Properties** dialog box.

Lomputer Name	Hardware	Advanced	System Protection	Remote
You must be lo	gged on as a	an Administra	tor to make most of t	nese changes
Performance				radiatist activity to the
Visual effects	, processor s	cheduling, m	emory usage, and vir	tual memory
				Settings
User Profiles				
Desktop settir	nas related to	vour sign-in		
199000000000000000000000000000000000000			32	13
				Settings
Status and D				
Sustem startu	ecovery	ura and dah	unging information	
System startu	p, system rai	ure, and deb	ugging miornation	
				Settings
				12
			_	
			Environme	ent Variables

14.Close the **System** dialog box.

2	Sys	tem	
🔄 🌛 👻 🕇 🖳 F Control	Panel → System and Security → Sy	rstem v C	Search Control Panel
Control Panel Home	View basic information	about your computer	
Device Manager	Windows edition		
Remote settings	Windows 8.1 Pro		S 191 🛫
System protection	© 2013 Microsoft Corpora	tion.	indows 8
Advanced system settings	All rights reserved.		1100050
	System		
	Processor:	Intel(R) Core(TM) i3-2120 CPU	@ 3.30GHz 3.29 GHz
	Installed memory (RAM):	5.04 GB	
	System type:	64-bit Operating System, x64-b	pased processor
	Pen and Touch:	No Pen or Touch Input is availa	able for this Display
	Computer name, domain, and	workgroup settings	
	Computer name:	spoken	🛞 Change settings
	Full computer name:	spoken	
	Computer description:		
	Workgroup:	WORKGROUP	
	Windows activation		
	Windows is not activated.	Read the Microsoft Software Lic	ense Terms
See also	Product ID: 00261-50000-0	0000-AA989	Activate Windows
Action Center			
Windows Update			

15. Verify the **Path variables** for **java**, **maven** and **ant** as demonstrated in video.

Section -III :Steps to access Command Prompt in Window 8

1. Go to **Desktop** and move the mouse cursor to the top right corner as shown. System displays hidden shortcuts.



2. Move the cursor to **Search Icon** and click on it.



The system displays the **Search bar** as shown.



3. Type **Command Prompt** in the **Search bar** and click on the **Search icon** in the **Search bar**.



4. Click on the **Command Prompt** application shown in the search results.



Command Prompt opens as shown.

Recycle Bin				
	™ Microsoft Window (c) 2013 Microso C:\Users\Pankaj>	Command Pro s [Version 6.3.9600] ft Corporation. All rights res	mpt ærved.	
		k		
				Windows 8.1 Pro Build 9600
H (2)				P P P (▶) 12:59 PM 2/2/2021