	901100 BOSS
	Experiment No. 1
	Aim: To install java on windows to, set system variable
	and test it by making a sample program.
	Theory: Java is a high-level, class-based, object oriented
	programing language that is designed to have as few implementation dependencise as possible. It is a genral-
	pur pose programing language intended to let programmers
	write once, run anywhere (WORA), meaning that compiler
	Java code can run on all platforms that support Java without the need of recompiliation. Java applications are typically
	compiled to bytecode that con run on any Java virtual
	machine (JVM) regardless of the underlying computer architect
	The syntax of Java is similar to cand ctt, but has
	fewer low-level facilities than either of them. The Java
	runtime provides clynamic capabilities (such as reflection
	and runtime code modification) that are typically not
	available in traditional compiled languages.
	It is used for:
	Mobile application
•	Desktop application
•	Web servers and application servers
	Games .
	Database connection
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	Grada Procedure:
4	Check if Java is Installed
•	Multiple java versions on the same system our cause conflicts,
	as applications may attempt to use different versions.
	Additionally it poses significant security risks over time.
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	To check version:
Stan 1	Type and in Windows search bar.
2.001.	Type and the windows search bar.
Step 2:	Open the command prompt.
Step 3:	Enter the following command to check the Jawa version in
	Windows:
	java - version
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	Rocking:
, 	Download Java for Windows 10:
Step 1	Open a browser and navigate to the oracle Jawa
Step 2:	Select the latest JDK version. In this example, the latest available version is JDK 21.
Step3:	Access the Windows tab.
Step4:	Click the x64 Installer clownload link.
A	Install Java On Windows 10:
	Double - click on the downloaded Java file to start the installation.
	Once the installation wizard welcome screen appears, select
*	Set Environmental Variables in Java:
Step 1:	Add Java to System Variable
	This step ensures that Java is accessible from the command line in any directory.
	1. Open the start menu and search for environment variable 2. Select Edit the system environment variables.
	3. Select Advanced in the System Properties window.
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	4. Click Envioronment Variables. 5. Select the Path variable in the System variables category and click edit. 6. Click New 7. Enter the path to the Java bin directory. 8. Click OK to save the changes and exit the variable editing window.
Step	2: Add JAVA_HOME Variable
•	Some applications require the Java-Home variable to point to the JDK installation directory. Follow the step below to create a the variable:
	2. Click New under the System variables category to create a new variable. Create a new JAVA_HOME variable in Windows.
	2. Name the variable JAVA_HOME
	3. Enter the path to your Java JDK directory in the variable value field.
	4. Click Ok

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Test Java Installation Verify that Java is installed by entering the Java - version
If installed correctly, the command outputs the Java version. To ensure everything works, write and compile a simple Java program by following the steps the sections below.
Write Test Java Script:
1. Open a text editor like Notepad or Notepad+7 and erecte a new file. 2. Enter the following code and click Save:
class Hello World & public static void main (String args []) & System. out. println ("Hello World!"); }
Compile Test Java Script.
Access the windows command prompt and complete the following steps:
1. Navigate to the directory where your Java file is soved.
2. Use the following command to complile the program: FOR EDUCATIONAL USE

	javac myprogram.java
	Replace my.program. java with your file name.
	After a successful compilation, the program generates a class
	file in the same directory.
	Run the program using the following syntax:
	java Hello World
	Conclusion:
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