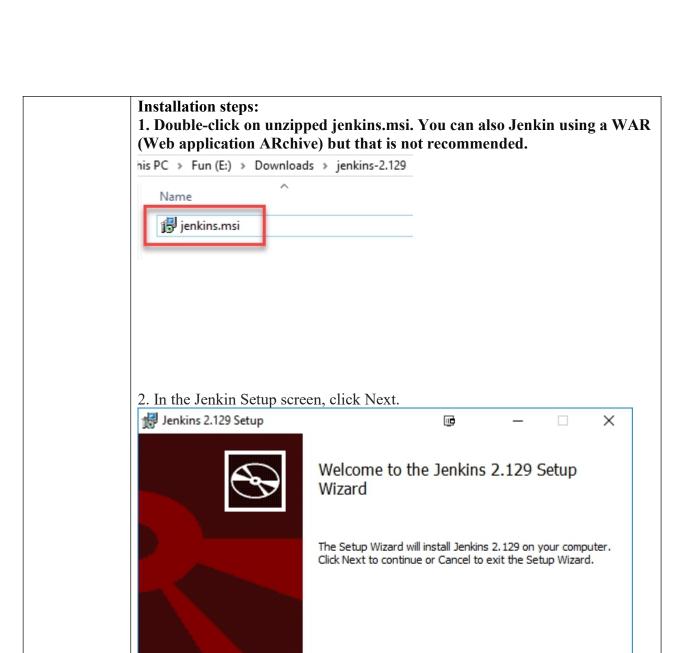


Vidyalankar Institute of Technology Accredited A+ by NAAC Vidyalankar Institute of Technology Accredited A+ by NAAC DEPARTMENT OF INFORMATION TECHNOLOGY Experiment No5

Semester	Semester VIII	
Subject	DevOps Lab	
Subject Professor In-	Prof. Yash Shah	
charge		
Laboratory	L11B	
Student Name	Ashwini Jadhav	
Roll Number	17101B0038	
Grade and Subject		
Teacher's Signature		
_		

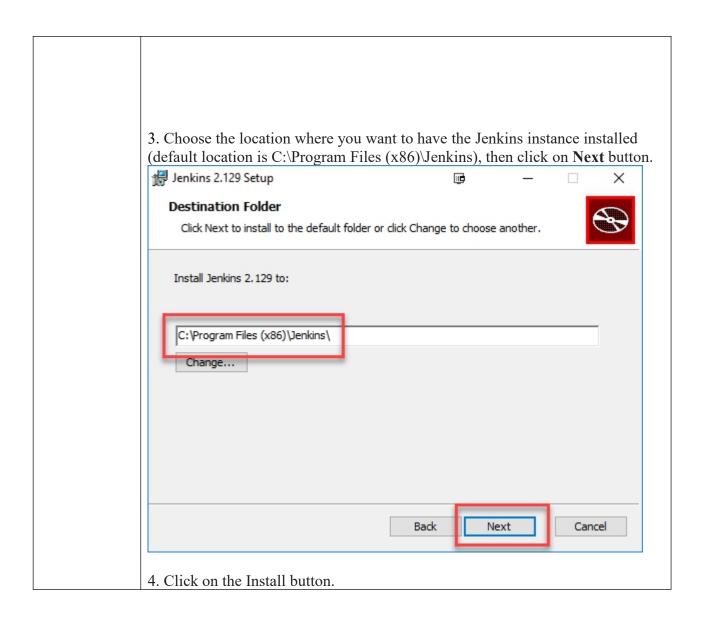
Experiment	5		
Number			
Experiment	To install Jenkins and create different builds on a single job		
Title			
Resources /	Hardware:		
Apparatus	Compatible Computer System	Java Development Kit (JDK) v.11	
Required		1	
Objectives	Explore and implement builds on Jenkins		
Theory	What is jenkins? Jenkins is an open source Continuous Integration server capable of orchestrating a chain of actions that help to achieve the Continuous Integration process (and not only) in an automated fashion. Jenkins is a widely used application around the world that has around 300k installations and growing day by day. Need of Jenkins: The reason Jenkins became so popular is that of its monitoring of repeated tasks which arise during the development of a project. For example, if your team is developing a project, Jenkins will continuously test your project builds and show you the errors in early stages of your development.		
	By using Jenkins, software companies can accelerate their software development process, as Jenkins can automate build and test at a rapid rate. Jenkins supports the complete development lifecycle of software from building, testing, documenting the software, deploying and other stages of a software development lifecycle.		

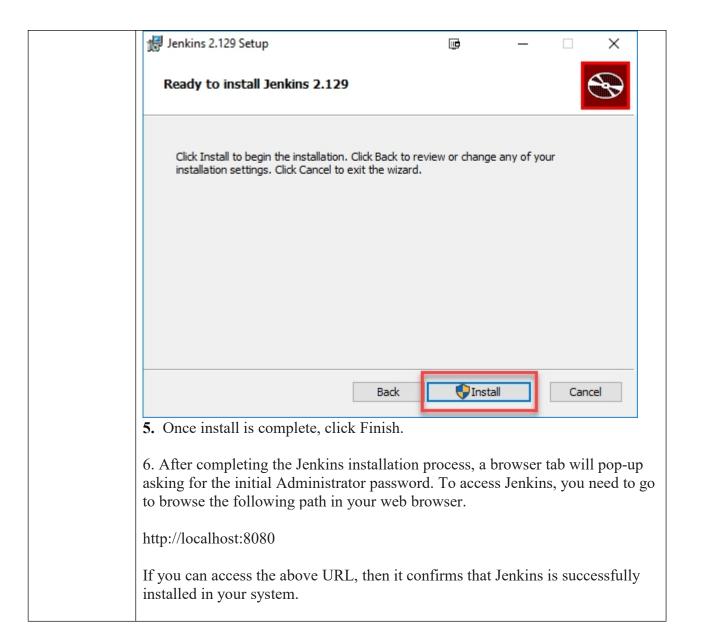


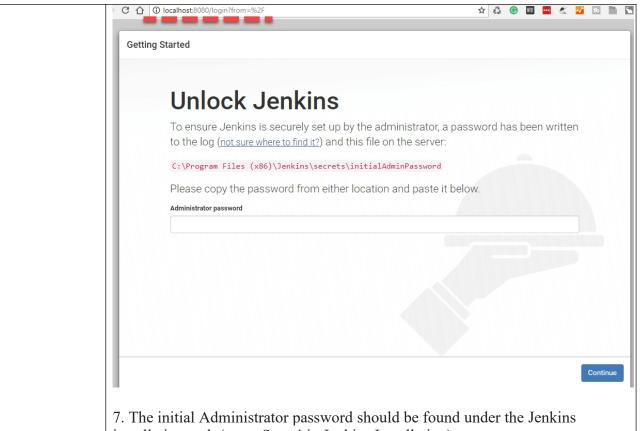
<u>B</u>ack

<u>N</u>ext

Cancel



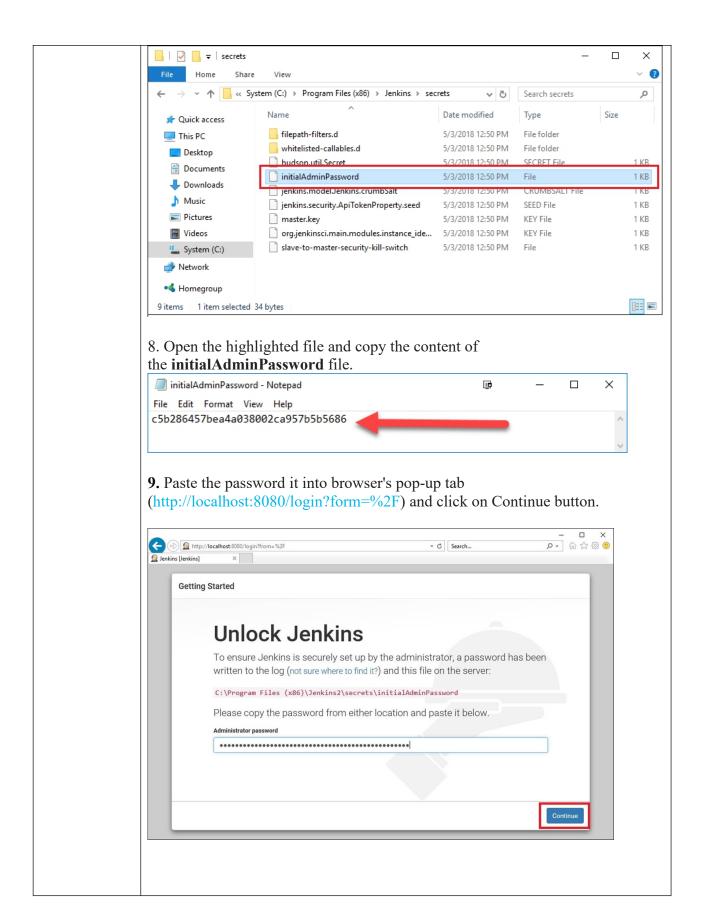




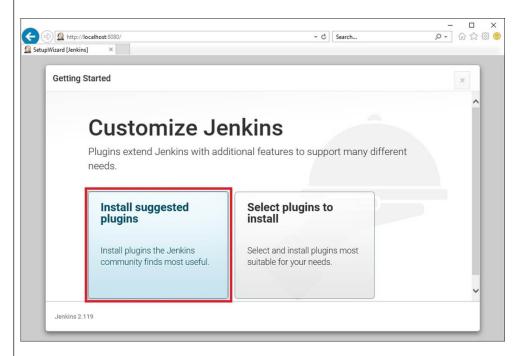
installation path (set at Step 4 in Jenkins Installation).

For default installation location to C:\Program Files (x86)\Jenkins, a file called initialAdminPassword can be found under C:\Program Files (x86)\Jenkins\secrets.

However, If a custom path for Jenkins installation was selected, then you should check that location for initialAdminPassword file.



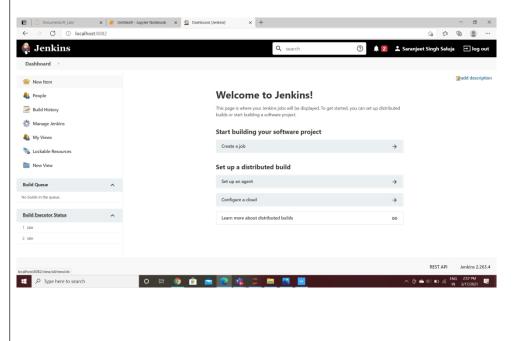
10. Click on the "Install suggested plugins button" so Jenkins will retrieve and install the essential plugins



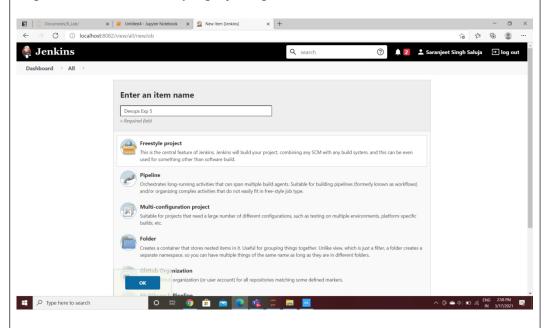
11. Jenkins will start to download and install all the necessary plugins needed to create new Jenkins Jobs.

Output

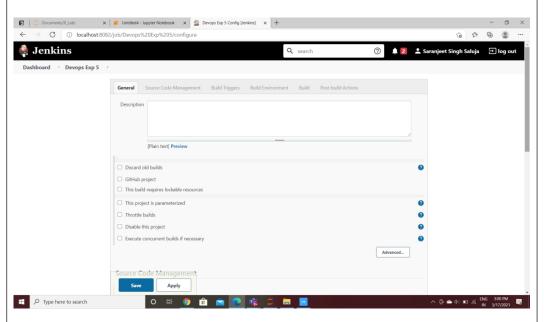
1. Create new project by clicking on New Item on the Dashboard



2. In the next screen, enter the Item name, in this case we have named it Devops Exp 5. Choose the 'Freestyle project option'



3. The following screen will come up in which you can specify the details of the job.



4. We need to specify the location of files which need to be built. If you have a repository hosted on Github, you can also enter the url of that repository here. In addition to this, you would need to click on the Add button for the credentials to add a user name and password to the github repository so that the code can be picked up from the remote repository.

