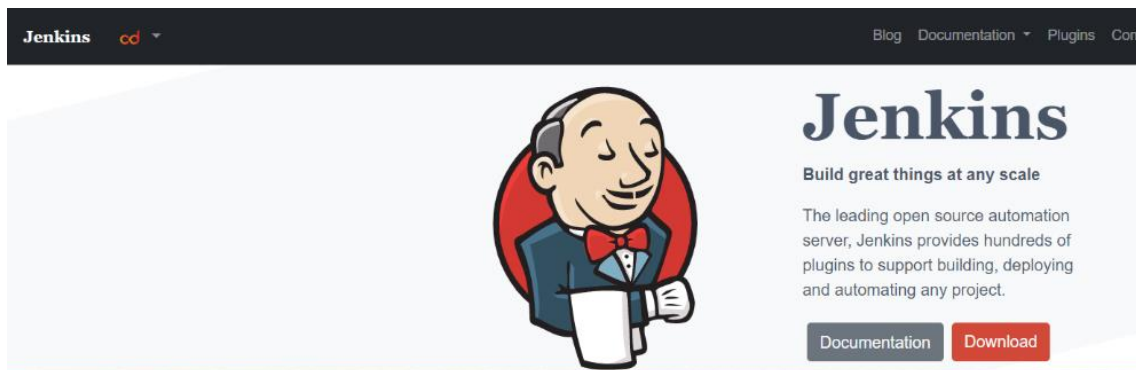


**Sumyak Jain, 500068360, R171218106**

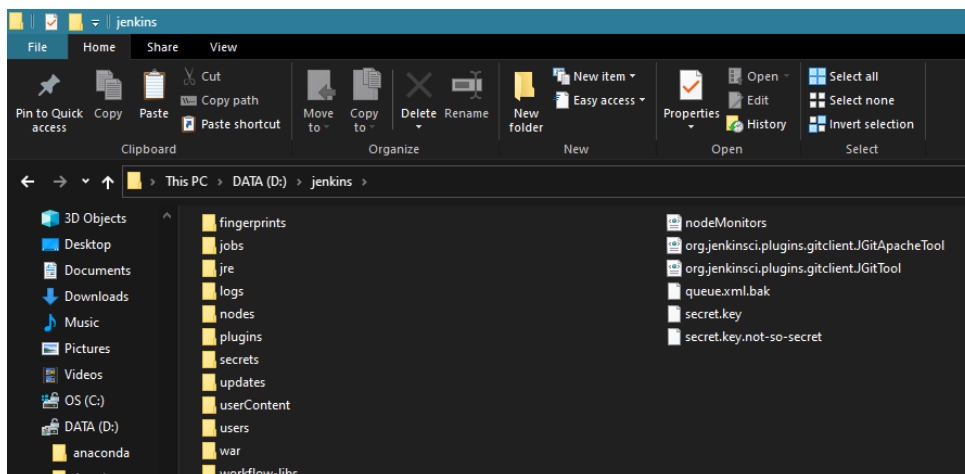
## **Experiment No 1**

### ***Installation of Jenkins and Execution of a simple Job in Jenkins***

STEP 1) Go to Jenkins website and download Jenkins



STEP 2) Go to the location where you have downloaded the jenkins



STEP 3) Open CMD and do the following given below in image

```
Command Prompt - java -jar jenkins.war --httpPort=8383
Microsoft Windows [Version 10.0.18363.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

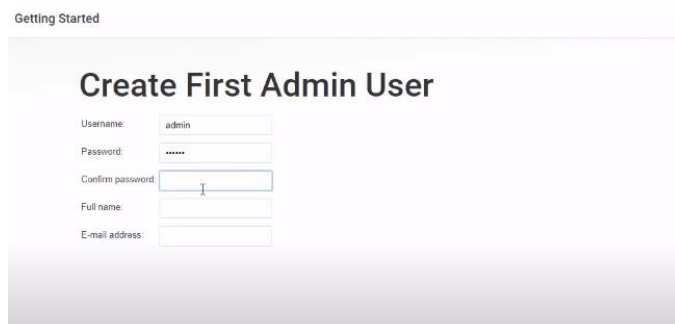
C:\Users\GAURAV>d:
D:\>cd jenkins
D:\jenkins>java -jar jenkins.war --httpPort=8383
Running from: D:\jenkins\jenkins.war
webroot: $user.home/.jenkins
2020-10-02 20:30:00.199+0000 [id=1] INFO org.eclipse.jetty.util.log.Log#initialized: Logging initialized @1081ms
to org.eclipse.jetty.util.log.JavaUtilLog
2020-10-02 20:30:00.277+0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2020-10-02 20:30:00.308+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2020-10-02 20:30:00.371+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-9.4.30.v20200611; built:
2020-06-11T12:34:51.929Z; git: 271836e4c1f4612f12b7bb13ef5a92a927634b0d; jvm 11.0.8+10-LTS
2020-10-02 20:30:01.369+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /,
did not find org.eclipse.jetty.jsp.JettyJspServlet
2020-10-02 20:30:01.430+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: DefaultSessionIdManager worke
rName=node0
2020-10-02 20:30:01.430+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: No SessionScavenger set, usin
g defaults
2020-10-02 20:30:01.436+0000 [id=1] INFO o.e.j.server.session.HouseKeeper#startScavenging: node0 Scavenging every
600000ms
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields (file:/C:/Users/GAURAV/.jenkins/war/WEB-
INF/lib/xstream-1.4.7-jenkins-1.jar) to field java.util.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstream.core.util.Fields
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
```

STEP 4) open browser and go to local host to open Jenkins

When you first time install Jenkins you have to provide password stored in given location



Give the credentials



## Download plugins

# Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

**Install suggested plugins**  
  
Install plugins the Jenkins community finds most useful.

**Select plugins to install**  
  
Select and install plugins most suitable for your needs.

Getting Started

## Getting Started

✓ Folders	OWASP Markup Formatter	Build Timeout	Credentials Binding	** Script Security
Timestampers	Workspace Cleanup	Ant	Gradle	** Command Agent Launcher
Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View	** Bouncycastle API
Git	Subversion	SSH Slaves	Matrix Authorization Strategy	** Struts
PAM Authentication	LDAP	Email Extension	Mailer	** Pipeline: Step API
				** SCR API
				** Pipeline: API
				** JUnit

## STEP 5) Open your Jenkins dashboard

# Jenkins

search

sumyak log out

Jenkins

- New Item
- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views
- Open Blue Ocean
- Lockable Resources
- New View

Build Queue (1)

basic

Build Executor Status

master

1 idle

S	W	Name	Last Success	Last Failure	Last Duration	Fav
●	☀	basic	20 days - #6	1 mo 8 days - #4	13 sec	🔔 ⭐
●	☀	CI-CD	3 mo 18 days - #18	1 mo 8 days - #20	18 sec	🔔 ⭐
●	☀	CI-CD-sonarcube1	1 mo 3 days - #3	1 mo 6 days - #2	20 sec	🔔 ⭐
●	☀	first_job	3 mo 26 days - #2	N/A	0.33 sec	🔔 ⭐
●	☀	git_job	17 days - #5	3 mo 28 days - #1	2.8 sec	🔔 ⭐
●	☀	groovy_script	17 days - #2	N/A	1 sec	🔔 ⭐
●	☀	Jenkins-Sonarcube	17 days - log	N/A	2.9 sec	🔔 ⭐
●	☀	second_job	3 mo 26 days - #2	N/A	0.27 sec	🔔 ⭐
●	☀	third_job	3 mo 26 days - #2	N/A	0.28 sec	🔔 ⭐

Icon: S M L

Legend 🔔 Atom feed for all 🔔 Atom feed for failures 🔔 Atom feed for just latest builds

## STEP 6) Make a freestyle project

# Jenkins

Jenkins > All

Enter an item name

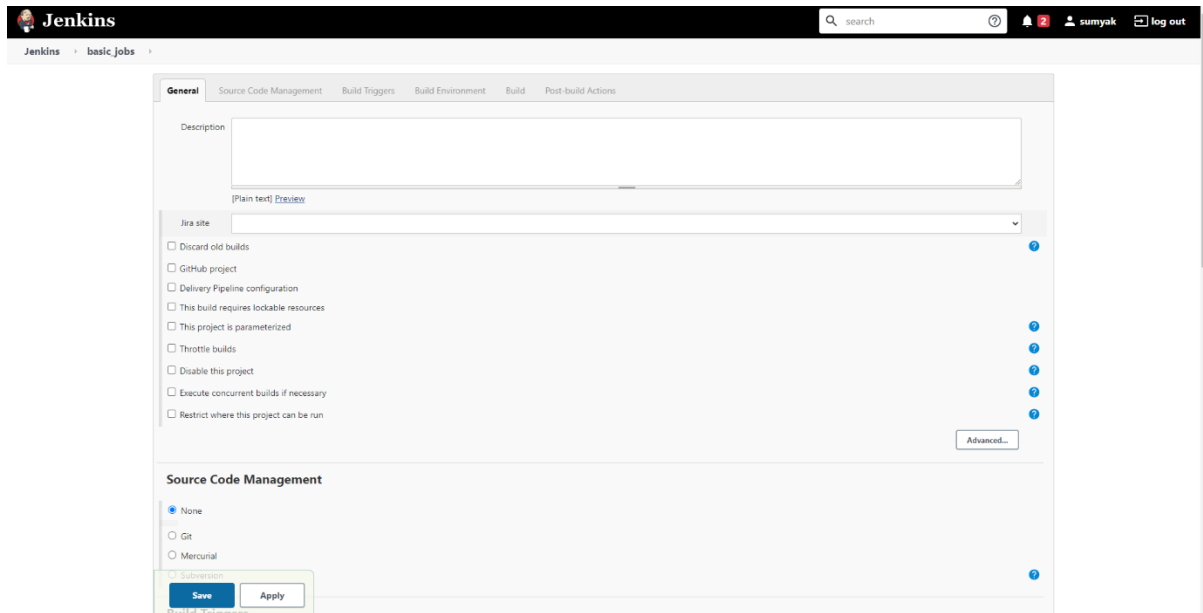
basic\_jobs

> Required field

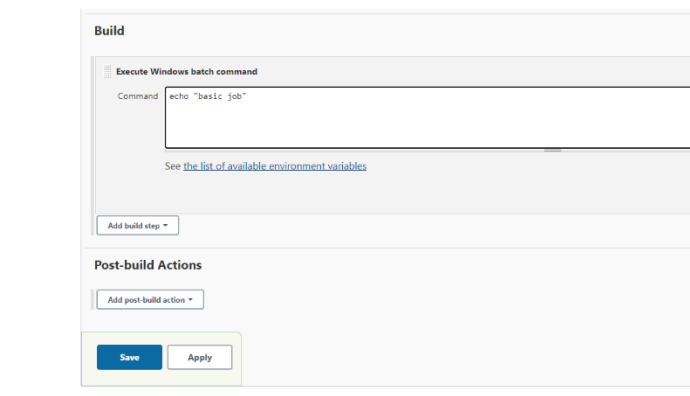
- Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this ca
- Maven project**  
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- Pipeline**  
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known a
- Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platf
- Bitbucket Team/Project**  
Scans a Bitbucket Cloud Team (or Bitbucket Server Project) for all repositories matching some defined markers.

STEP 7) just give a batch command to run

We are just printing a message!



Click save and build



STEP 8) if run successfully following output will come

