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### Finolex Academy of Management and Technology, Ratnagiri

**Information Technology Department** 

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Subject name: D	evOps Lab		Subject Code: ITL803		
Class	BE IT	Semester – VIII (CBCGS)	Academic year: 2019-20		
Name of Student	Kazi Jawy	vad A Rahim QUI	Z Score: 10/16		
Roll No	28	Assignment/Experir	ment No. 03		

Title: Integrating Jenkins to the GitHub to automate the jobs with every commit on GitHub

#### 1.Lab objectives applicable

LOB1:To be familiarized with Jenkins, which is used to build & test software Applications & Continuous integration in DevOps environment.

#### 2. Lab outcomes applicable:

LO2:Students understood the installations of Jenkins and its uses

#### 3. Learning Objectives:

- 1. To understand the integration of Jenkins with GitHub
- 2. To understand the working of GitHub
- 4. Practical applications of the assignment/experiment: Adding the developed source code to the central repository for safety reasons and also to perform auto building the code from different developer

#### 5. Prerequisites:

- 1. GitHub account
- 2. Internet Access
- 3. GitHub commands

#### 6. Hardware Requirements:

- 1. Internet Access with Browser
- 2. Access to root privileges

#### 7. Software Requirements:

Jenkins and git utility

- 8. Quiz Questions (if any): (Online Exam will be taken separately batchwise, attach the certificate/ Marks obtained)
  - 1. What GitHub?
  - 2. What are the commands to push code to GitHub?
  - 3. How to clone any gitHub repository?

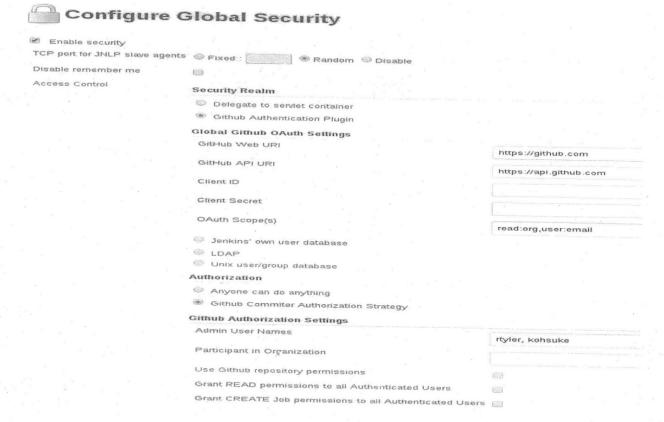
Sr. No.	Parameters	5		Marks obtained	Out of
1	Technical Understanding (Assessment may be done based on Q & A <u>or</u> any other relevant method.) Teacher should mention the other method used -			12.00	6.
2	Neatness/presentation				2
3	Punctuality				2
Date of performance (DOP)		Total marks obtained		10	
Date of checking (DOC)		Signature of teacher			



Theory: GitHub is a website and could-based service that helps developers store and manage their code, as well as track and control changes to their code. To understand exactly what Github is, you need to know two connected principles · Version control

Git is a specific open-source version control system created by Linus Torvalds Specifically, Git is a distributed version control system, which means that the entire codebase and history is available on every tep developer's computer, which allows for easy branching and merging.

## 11. Installation Steps / Performance Steps -





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	Learning Outcomes Achieved:
	1) Student understand the intermetion of
١.	1) Student understood the integration of jenking and GitHub service.
	2) Students understood the enabling of
	ienking pluging.
	jenkins plugins.
	3) Students understood the writing a simple
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	4) Students understood the Git commands
	an terminals.
	Conclusion:
	I. Applications of the studied technique in industry a. Jenkins are used to automate the
	a. Jenkins are used to automate the
	tasks in the industry.
	b. GitHub is used to track the changes
	made in code.
	2. Engineering Relevance
	a. Version controlling the software.
	b. To perform pipeline as code.
	3. Skills Developed
	a Git Hub integration with Jenkins.
	6. Safe guarding the source code using
	Git Hub.
4	
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