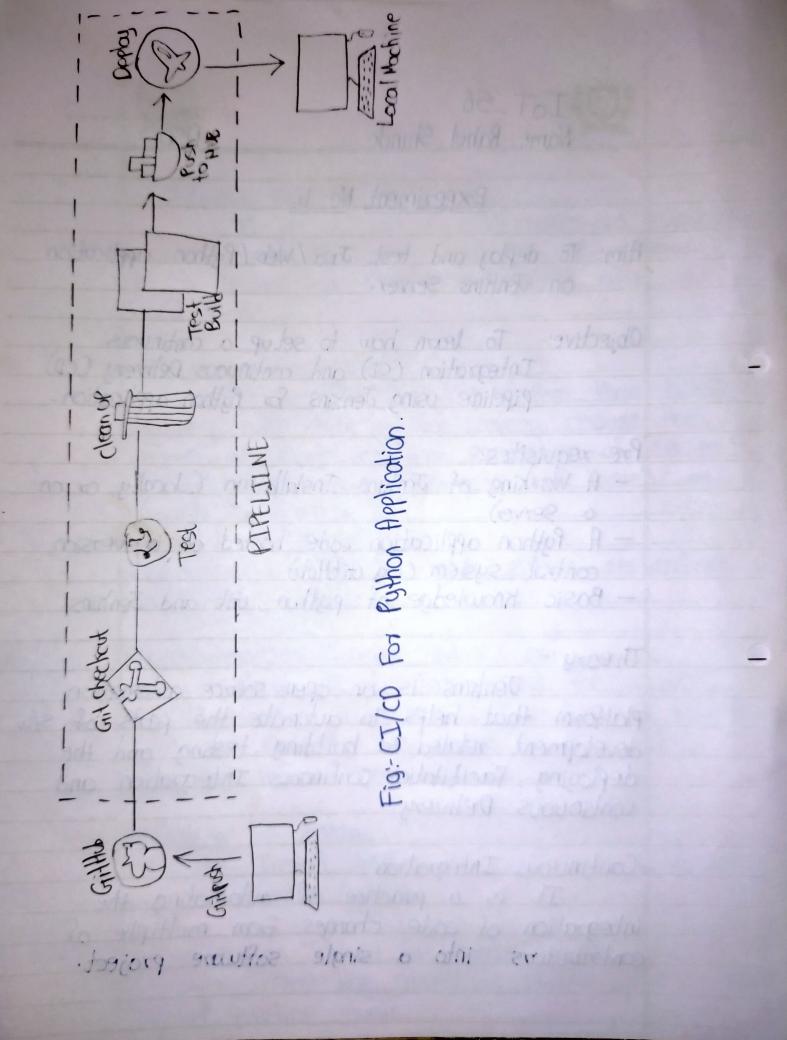
	Name:-Rahul Shinde DSO
	Experiment No:-4
	Aim: To deploy and test Java / Web / Python application on Jenkins Server.
•	
	Date of Perform.  Date of submission
	Sub Incharge
<u></u>	

IoT_56 Name:-Rahul Shinde Dso	
Experiment No:- Lt	
Aim:- To deplay and test Java/Web/Python application on Jankins Server.	
Objective:- To Jean how to setup a continuous Integration (CI) and continuous Delivery (CD)	
Pre-requisites:-	
- A Working of Jenkins Installation (Jorally or on	
- A Python application code hosted on a version control system (e.g. GitHub)  - Basic knowledge of python, Git and Jenkins.	
Theory:	
Jenkins is an open source automation platform that helps to automate the parts of student development related to building testing and the	U
deploying, facititation continuous Integration and Continuous Delivery.	
Continuous Integration  It is a practice of automating the	
integration of code changes from multiple of contributors into a single software project.	





Date:\_\_\_\_\_

	Nacl 2
	Continuous Delivery
-	It is an extension of continuous Integration
	which automatically deploys all the code changes
	to a testing or testing environment after the build stage.
	Dorid Stage.
0	- Continuous Deployment
	It is goes one step further than continuous
	delivery with the practice, every change that
	passes all stages of your production of pipeline
	is released to your customers and there's no Human Intervention.
	Floridi Filesocition.
	Experiment setps to deploy python application
	on Jenkins Server.
_	
	Ounderstanding Jenkins and CI/CD:- Read about Jenkins and the concepts
	of Continuous Integration (CI), continuous Delivery
	(co) and Continous Deployment (a) from the
	provided information.
	@ Setting up Jenkins:-
	Install Jenkins and configure it to zun
	on your system/server.
	3 Configuring Jenkins for Pathon CI/CD:
	-> Install the necessary plugins, such as the
	Docker pipeline plugin.



Date:
The Tenkins.  Description of the python application:  Create a simple flash application in python.
5 Creating the Jenkins pipeline: Write a Jenkins file that defines the pipeline for building, testing, and deploying flook application.
6) Building the pipeline:  - Greate a Jentrins Job and paste the Jentrins file contents into the pipeline script editor.  - Triager a build to initiate the pipeline.
7 Validation and Testing:  - Verify that pipeline builds the application successfully  - Confirm that the Docker image is pushed to  Acker-Hub:  - Ensure that the flast application is running  on the specified part:
Conclusion:- Hence, we successfully Depty & Test Python Application on the Jenkins Server.