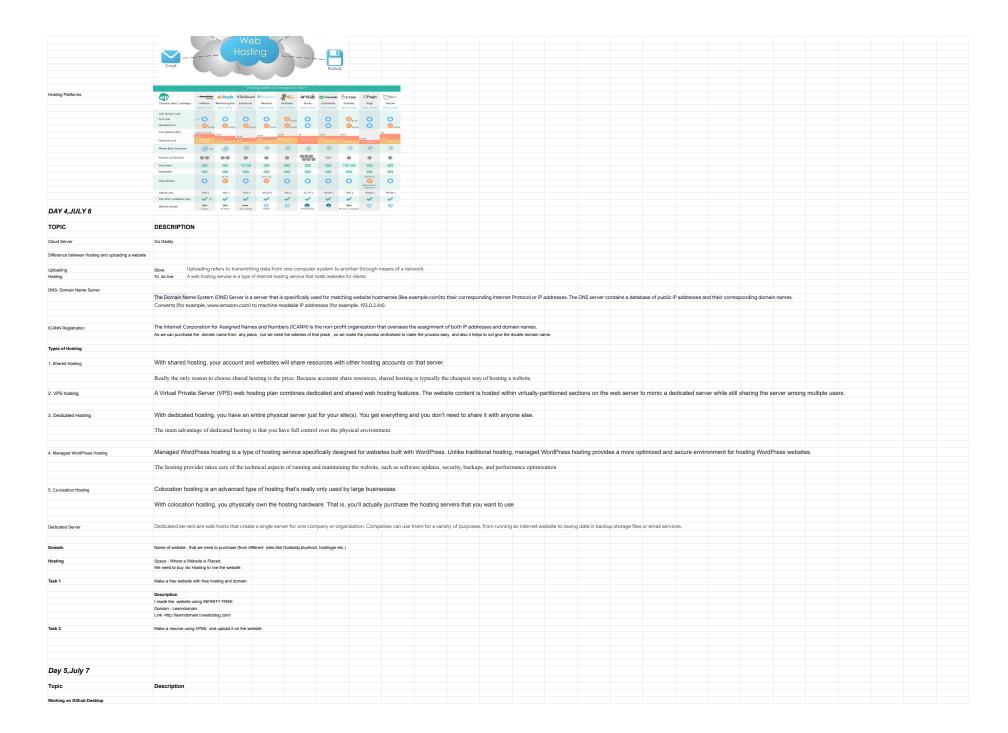
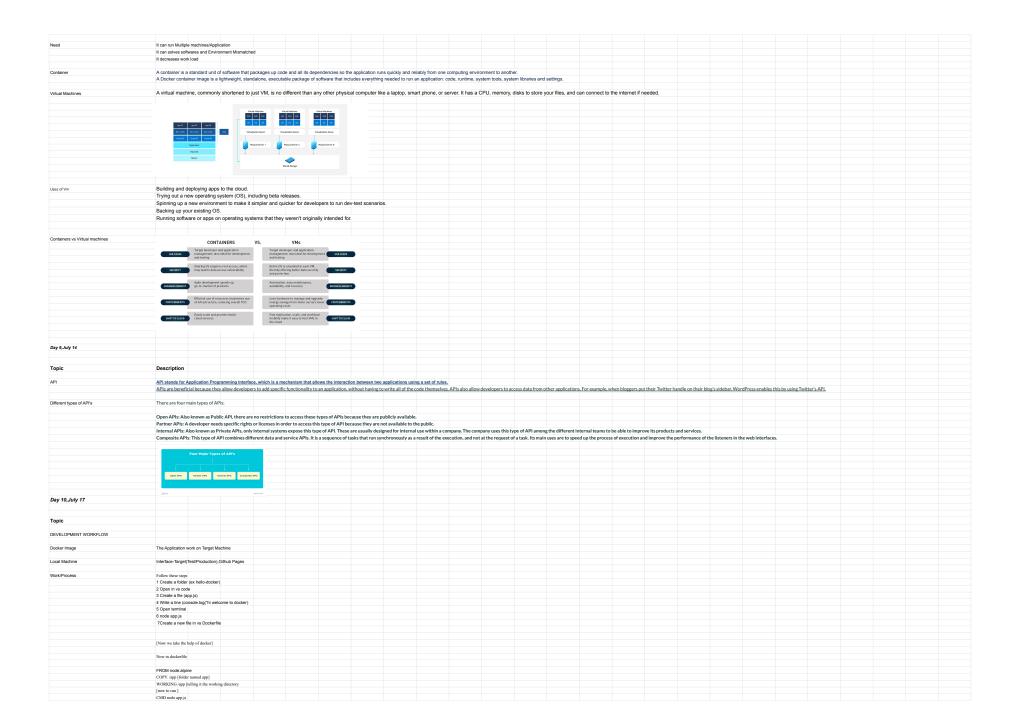
| Day 1, July3            |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|-------------------------|--|---|--|--|---|------------------------------------|---|-------------------------------|------------------------------|---|-----------------------------|---------------------------------|
| TOPIC                   | DESCRIPTION  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| SOFTWARE DEVELOPMENT    | Software development refers to   |   |  |  |   |                                    | e                                       |                               |                              |   |                             |                                 |
| DEV OPS                 | DevOps is a set of practices, to   |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| IT OPS                  | The process of implementing, r   |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| CIRCLE CICD             | CircleCl lets teams build fully-a  |   |  |  |   | on                                 |   |                               |                              |   |                             |                                 |
| SCHEMA                  | In computer programming, a so  | chema (pronounced SKEE-   | mah) is the organization or                      | structure for a databas                    | se,   |                                    |   |                               |                              |   |                             |                                 |
| GITHUB                  | A platform and cloud-based service for software development and version control using Git, allowing developers to store and manage their code. |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| GITLAB                  | an open source code repository and collaborative software development platform for large DevOps and DevSecOps projects                         |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| POWER SEARCH            | Power Searching With Google r  | makes it amazingly easy to  | find information. Learn abo                      | out the powerful advan                     | ced tools that are on the                   | Internet to help you               | become an advanced                      | power searcher ar             | d find just the rig          | ht information when the                       | stakes are high             | 1                               |
| IAAS                    | Iaas is also known as Hardware as  | a Service (HaaS). It is one of  | the layers of the cloud comput                   | ting platform. It allows cu                | stomers to outsource their                  | IT infrastructures such            | as servers, networking, pr              | ocessing, storage, vi         | rtual machines, and          | other resources                               |                             |                                 |
| SAAS                    | SaaS is also known as "On-Der  | mand Software". It is a software  | ware distribution model in w                     | hich services are hoste                    | ed by a cloud service pro                   | vider. These services              | s are available to end-us               | sers over the interr          | et so, the end-use           | ers do not need to install                    | any software or             | n their devices to ac           |
| PAAS                    | Platform as a Service (PaaS) is a  | a complete cloud environm   | ent that includes everythin                      | g developers need to b                     | ouild, run, and manage a                    | pplications-from se                | rvers and operating sys                 | tems to all the net           | working, storage,            | middleware, tools, and a                      | more                        |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| DAY 2.JULY 4            |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| ,                       |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| TOPIC                   | DESCRIPTION  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| SET UP ENVIRONMENT      |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| SET OF ENVIRONMENT      |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| ASANA (TASK MANAGEMENT) | Asana is a workmanagement platform ,which  | helps us to manage the work by sched  | duling ,tracking and forming different tea       | ams to a single project and it save        | es alot of time of person by writing e      | mails, meetings, and working       | on the assigned tasks.                  |                               |                              |   |                             |                                 |
|                         | assign a task to a member(in the to do list)     Assign due dates to the project and we can also   | en add priority to the task according to the  | fue date   |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  | ,   | ue date.   |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         | Process:- 1.When the task is assigned, it can be<br>2.when the task has been started shift th  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         | 2.when the task has been started shift in<br>3.When the task is completed shift it to t  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| SLACK(COMMUNICATION)    | Slack is that tool which we use to communicate wh  | billion and the second | and a different share all the same in this base. |  |   |                                    |   |                               |                              |   |                             |                                 |
| SEACK(COMMUNICATION)    | Stack is that tool which we use to communicate wh  | nile working on a project , in stack we can in  | nake dillerent channels through which we ca      | an communicate with the whole team         | or with a specific person.                  |                                    |   |                               |                              |   |                             |                                 |
|                         | PROCESS :- 1. To communicate with different pers   |   |  | ers which will be associated with the      | project and we can select the team me       | embers with whom we want to talk   | k                                       |                               |                              |   |                             |                                 |
|                         | 2. Communication through stack is 6 The communication is termed as "WORKSPACE"   | easy as the communication is regarding the  | project.   |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| CLOUD COMPUTING         | Cloud means 24°7 available and Computing mean  | ns Executing  |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| TYPES-                  |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| Public Cloud            | A public cloud is a type of cloud computing se   | ervice that is offered by third-party prov  | iders over the public internet 123. It prov      | vides computing resources such as          | s software applications, virtual mach       | ines                               |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| Private Cloud           | A private cloud is a cloud computing environn  | ment that is dedicated to and accessible of   | only by a single customer or organization        | n. It can be hosted on-premise or o        | off-premise, but it is always isolated      | from other users.                  |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| Hybrid Cloud            | Hybrid cloud is a computing environment that   | t combines different types of clouds, suc   | h as public, private, or on-premises, and        | allows data and applications to be         | e shared and managed across them.           |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| SERVICES:-              |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| AMAZON                  | AWS -Amazon Web Services (AWS) is the  | e world's most comprehensive and b  | proadly adopted cloud, offering over             | 200 fully featured services from           | n data centers globally.                    |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| MICROSOFT               | AZURE - The Azure cloud platform is more than 20   | 00 products and cloud services designed to  | help you bring new solutions to life—to solv     | re today's challenges and create the       | future. Build, run and manage applicati     | ons across multiple clouds, on-pr  | emises and at the edge, with the tools  | and frameworks of your choi   | ce.                          |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| GOOGLE                  | CLOUD -Google Cloud (also known as Google Clo  | oud Platform or GCP) is a provider of compl   | uting resources for developing, deploying, a     | nd operating applications on the Web       | b. Although its cloud infrastructure does   | serve as the host for applications | s such as Google Workplace (formerly    | G Suite, and before that Goo  | gle Apps), GCP is mainly a s | service for building and maintaining original | ginal applications, which n | may then be published via the W |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| IBM                     | IAAS-Infrastructure as a service (laaS) is a type of   | f cloud computing service that offers essent  | ial compute, storage, and networking resour      | rces on demand, on a pay-as-vou-oo         | basis. IaaS is one of the four types of     | doud services, along with softwar  | re as a service (SaaS), platform as a s | ervice (PaaS), and serverless |                              |   |                             |                                 |
|                         | PAAS-Platform as a service (PaaS) is a complete  | development and deployment environment  | in the cloud, with resources that enable you     | to deliver everything from simple clo      | ud-based apps to sophisticated, cloud-      | enabled enterprise applications.   | You purchase the resources you need     | from a cloud service provider |                              | nd access them over a secure Internet         | connection.                 |                                 |
|                         | SAAS-SaaS is also known as "On-Demand Softwa   | are". It is a software distribution model in wh   | nich services are hosted by a cloud service p    | provider. These services are available     | e to end-users over the internet so, the    | end-users do not need to install a | any software on their devices to acces  | s these services.             |                              |   |                             |                                 |
|                         | DigitalOcean Infrastructure is a leading cloud service pr  |   |  | and their data centers are prevalent in ev | ery corner of the world to provide seamless | cloud services across the globe.   |   |                               |                              |   |                             |                                 |
|                         | The company offers web developers and businesses sim   | nple and highly scalable cloud computing solution   | ons.   |  |   |                                    |   |                               |                              |   |                             |                                 |
| Day 3, July 5           |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
| Web Hosting             | (6)  | 28  |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         |  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         | 0 000  |   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         | W.   | ebsites   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         | Files  | ebsites / Databases   |  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         | Files  | Databases / Databases   | 3  |  |   |                                    |   |                               |                              |   |                             |                                 |
|                         | Res  | ebsites / Databases   |  |  |   |                                    |   |                               |                              |   |                             |                                 |



|                        | Pushing is how you transfer commits from your local repository to a remote repo  |
|------------------------|--|
| Push                   | rushing show you danister continues north your occurrepository to a remote repo  |
| Pull                   | used to fetch and download content from a remote repository and immediately update the local repository to match that content.   |
|                        |  |
| Authorization Code     | a code that's generated by an application on your mobile device or sent as a text message (SMS).   |
|                        | (A password for a particular website)  |
|                        |  |
| Commands in the Github |  |
|                        | git init - initializes a brand new Git repository and begins tracking an existing directory, it adds a hidden subfolder within the existing directory that houses the internal data structure required for version control.  |
|                        | git clone creates a local copy of a project that already exists remotely. The clone includes all the project's files, history, and branches.   |
|                        |  |
|                        | git add stages a change. Git tracks changes to a developer's codebase, but it's necessary to stage and take a snapshot of the changes to include them in the project's history. This command performs staging, the first part of that two-step process   |
|                        | git commit saves the snapshot to the project history and completes the change-tracking process. In short, a commit functions like taking a photo. Anything that's been staged with git add will become a part of the snapshot with git commit.   |
|                        |  |
|                        | git status shows the status of changes as untracked, modified, or staged.  |
|                        | git branch shows the branches being worked on locally.   |
|                        |  |
|                        | git merge merges lines of development together. This command is hybrically used to combine changes made on two distinct branches. For example, a developer would merge when they want to combine changes from a feature branch for deployment.   |
|                        | git pull updates the local line of development with updates from its remote counterpart. Developers use this command if a teammate has made commits to a branch on a remote, and they would like to reflect those changes in their local environment.  |
|                        |  |
|                        | git push updates the remote repository with any commits made locally to a branch.  |
| Why GitHub             | GitHub allows collaboration with developers from all over the world.   |
| Git Conflict           |  |
| GIT Conflict           | A conflict arises when two separate branches have made edits to the same line in a file, or when a fire has been deleted in one branch but edited in the other. Conflicts will most likely happen when working in a team environment.  |
|                        |  |
|                        |  |
|                        |  |
| Day 6, July11          |  |
| ., ., .,               |  |
| Topic                  | Description Secription Secreption Secription Secription Secription Secription Secription Secreption |
| Branching In Github    | A branch is a new/separate version of the main recository.   |
| Branching In Github    | A cranch is a new separate version or the main repository.  Branches allow you to work on different parts of a project without impacting the main branch.  |
|                        |  |
|                        | When the work is complete, a branch can be merged with the main project.   |
|                        | You can even switch between branches and work on different projects without them interfering with each other.  |
|                        |  |
|                        | Branching in Git is very lightweight and fas   |
|                        | Process-  1. Firstly go to the git desktop, on the top is an option to create a branch, create the branch.   |
|                        | 2. Then put the file in the folder and then felch it, then push it and commit the changes.   |
|                        | 3. Next, Send Pull Request to do the changes, after the req is being accepted 4.The file will be showed on the main branch as well.  |
|                        | a. The law file or stroked on the main carbon as we. Any life folder carbon added in the other stronch also by the same process, after that it can be compared and merged  |
|                        |  |
| Conflicts in GITHUB    | A conflict in Gilf-lub is a situation where Git cannot merge two versions of the same file automatically.  |
| Connects in Grinds     | This can happen when multiple people are working on the same project and make different changes to the same file.  |
|                        | When a conflict occurs, Git marks the file as Unmerged and shows both versions of the file in the code. The user needs to manually edit the file and choose which version to keep or combine   |
|                        |  |
| Day 7,July 12          |  |
|                        |  |
| Topic                  | Description  |
| Github Pages           | GitHub Pages is a static site hosting service that takes HTML, CSS, and JavaScript files straight from a repository on GitHub, optionally runs the files through a build process, and publishes a website.   |
| omino i ages           | and a second sec |
|                        |  |
| Use of Github pages    | It is a service that allows you to host a static website directly from a GitHub repository.  |
|                        | This means you can use your repository to store your website's code and files, and GitHub will automatically publish them as a website you can access online.  We can upload any page of our own repo on any github page   |
|                        |  |
| Reference              | Take the reference from the GNDEC Newletter page, i.e. as there the pages are made, we can make the pages and upload it on the gitpages  |
| Task-                  | 1. Make a project in any language  |
|                        | 2 Upload I on the GIPPages   |
|                        | Giftub pages Process   |
|                        | 1. Make a new repository, and add a readme file in it. Also Clone it in Gilhub Desktop   |
|                        | 2. Add any Project file in it named as index.html Only.  |
|                        | 3.4. Co to settings -pages-then under deptoy choose the branch main and then save it after that a Githup Page will be generated 4. Githupgage is now available.  |
|                        |  |
|                        |  |
| Day 8,July 13          |  |
| Topic                  | Description  |
|                        |  |
| Docker                 | Docker is a set of platforms as a service (PasS) products that use the Operating system level visualization to deliver software in packages called containers.   |
|                        | Decker is an open source platform that embles developers to build, deploy, run, update and manage containers It is a platform for building, numering and shopping appointage and an advanced and response appointed and an advanced an advanced and advanced an advanced and advanced an advanced an advanced and advanced and advanced an advanced and advanced an advanced an advanced and advanced and advanced an advanced and advanced an advanced and advanced analysis and advanced and advanced and advanced and advanced analysis and advanced and advanced and advanced and advanced and advan |
|                        | it is a paration not output, namely and paraticular.  Docker works on every matchine like Linux, Window.   |
|                        |  |
|                        | Yeardedge about any Decremental Jacquines  |
| Pre - Requisite        | Kronokedge about any Programming Itanguage Gat   |



|   | Now save it  |  |
|---|--|--|
|   | Now see III Now we want to create it's container as image  |  |
|   |  |  |
|   | Now open terminal  |  |
|   | First check version  |  |
|   | docker build 4 helio-docker  |  |
|   |  |  |
|   | docker image is created  |  |
|   |  |  |
|   |  |  |
|   | Now we will test our decker  |  |
|   | docker mn hello-docker   |  |
|   | OCAST UNIFICIPALATE  |  |
|   | Now it's benifit is when we put it on tub anyone will be able to use it  |  |
|   |  |  |
|   | Task   |  |
|   |  |  |
|   | Now we have to put it decker profile   |  |
|   |  |  |
|   | Now playwithdocker   |  |
|   | First run node   |  |
|   | Then check your container  |  |
|   |  |  |
|   |  |  |
| Day 11,July 18  |  |  |
|   |  |  |
|   |  |  |
| Торіс   | Description  |  |
| · opit  |  |  |
| At the end of this week : a real time project with the he   | Hin of discharge   |  |
|   |  |  |
| Docker pull Ubuntu  |  |  |
|   |  |  |
| To run Ubuntu   |  |  |
|   |  |  |
|   |  |  |
|   |  |  |
| Docker run it Ubuntu [interactive mode]   |  |  |
|   |  |  |
| Commands  | is: Let files and directories in the current directory.  |  |
|   | Example to   |  |
| echo[like printf]   | dd. Change directory. Example of directory, name (to enter a specific directory)   |  |
| history   | Example, to enecuty famine to enecuty of the production of the pro |  |
|   | you. Into the current working directory.  Example: you'd   |  |
|   | Lowings-your indirections are directions and a second of the second of t |  |
|   | Example: mixed directory, name   |  |
|   | rm: Remove files or directories.   |  |
|   | Example: rm file_name (to remove a file)   |  |
|   | cp: Copy files and directories.  |  |
|   | Example: op source_file destination_file (to copy a file)  |  |
|   | mv. Move or rename files and directories.  |  |
|   | Example: mv old_file new_file (to rename a file)   |  |
|   | touch: Create an empty file.  Example: touch file_name   |  |
| Packages  | example: touch tie_name  |  |
| apt list[how many packages are there and which are in   | To the second se |  |
| apt iistiliow many packages are there and which are in  | issacruj   |  |
| apt update  |  |  |
| apt install nano  |  |  |
| apt remove nano   |  |  |
|   |  |  |
|   |  |  |
| Also test different commands  |  |  |
|   |  |  |
|   |  |  |
|   | in order to lost the booker containers, we can use the booker por of "booker" container is " command. This command provides a wright of whose to list after all containers on a  order to some the command provides and office all containers on a   |  |
| How to check which containers are running in our dock   | In order to list the Docker containers, we can use the "Bocker per" or "Bocker containers is "   |  |
|   |  |  |
|   |  |  |
|   |  |  |
| Day 12, July 19   |  |  |
|   |  |  |
|   |  |  |
| Topic   | Description  |  |
| JENKINS   |  |  |
| JENKINS   | € Jenkins  |  |
| use for automation  |  |  |
| pre req - docker  |  |  |
| pre req - docker<br>major work - build, test ,deploy  |  |  |
| major work - build, test ,deploy<br>infrastructure -  |  |  |
| master server- control pipeline and schedule build  |  |  |
| agents (logo represent logo)- it runs the build   |  |  |
| Developer - guthub- master - agent  |  |  |
|   |  |  |
|   |  |  |
|   | nux, windows), cloud agenti(Docker Aws fleet manager Kubernetes)   |  |
| types of agents- permanent agent(dedicated server- lin  | rux.windows), doud agen(Docker Aws fleet manager/Nubernetes)   |  |
| types of agents- permanent agent(dedicated server- lin<br>free style build(shell scripting), pipeline (clone-build- te  |  |  |
| types of agents- permanent agent(dedicated server- lin  |  |  |
| types of agents-permanent agent/dedicated server- lif-<br>free style build(shell scripting), pipeline (clone-build- te<br>diff between docker and jenkins   |  |  |
| types of agents- permanent agent(dedicated server- lif-<br>free style build(shell scripting), pipeline (clone-build- te<br>diff between docker and jenkins<br>commands -  | est-package-deploy)  |  |
| types of agents- permanent agent/(dedicated server- life style build(shell scripting), pipeline (clone-build-ted) fift between docker and jenkins commands - commands - give and ssh is set up as master server, usually make | est-package-deploy)  |  |
| types of agents- permanent agent(dedicated server- lif-<br>free style build(shell scripting), pipeline (clone-build- te<br>diff between docker and jenkins<br>commands -  | est-package-deploy)  |  |

| jenkins jobs are run at dynamically                |  |  |  |                          |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--------------------------|--|--|--|--|--|--|--|--|--|
|  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Day 13, July 20                                    |  |  |  |                          |  |  |  |  |  |  |  |  |  |
|  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Project  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
|  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Day 14, July 21                                    |  |  |  |                          |  |  |  |  |  |  |  |  |  |
|  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
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| Day 15, July 24                                    |  |  |  |                          |  |  |  |  |  |  |  |  |  |
|  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| T  | D  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Topic  | Description  |  |  |                          |  |  |  |  |  |  |  |  |  |
|  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Google Page Speed                                  | Google image - Page Enhancement Page Speed Measure |  |  |                          |  |  |  |  |  |  |  |  |  |
| 2 Methods to measure-                              | Desktop Measure                                    | Mobile Website   |  |                          |  |  |  |  |  |  |  |  |  |
| 2 metrous to measure                               | Deantop incusure                                   | modic reduce   |  |                          |  |  |  |  |  |  |  |  |  |
|  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
|  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| PWA  | Progressive Web Apps                               | (PWAs) are applications that you build by using web to | echnologies, and that can be installed and can run on all devi | ices, from one codebase. |  |  |  |  |  |  |  |  |  |
|  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Domain Authority                                   |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Page Index   |  |  |  |                          |  |  |  |  |  |  |  |  |  |
|  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Search Engine Optimisation                         |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| "Content is the King"                              |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Page Submit in Google Webmaster                    |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Domain Verify                                      |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| D. C. College December 12 Consult West Manufacture |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Put Github Page in Google Web Master<br>Done       |  |  |  |                          |  |  |  |  |  |  |  |  |  |
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| D  |  |  |  |                          |  |  |  |  |  |  |  |  |  |
| Process  |  |  |  |                          |  |  |  |  |  |  |  |  |  |