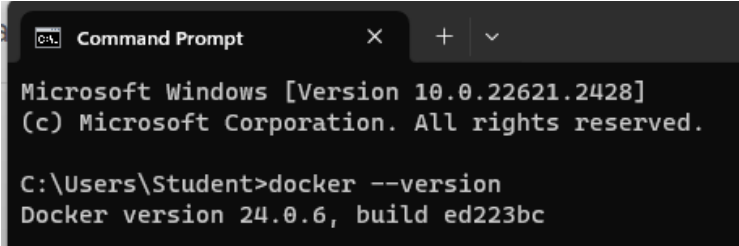
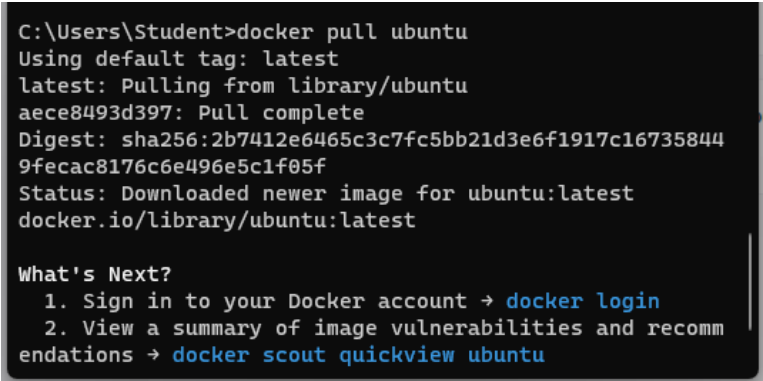
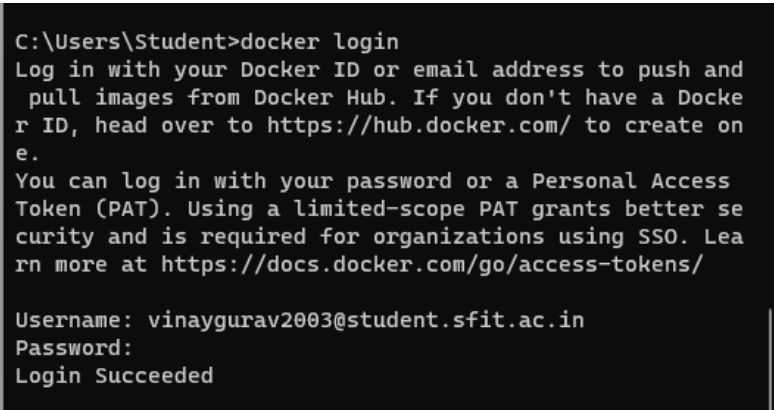
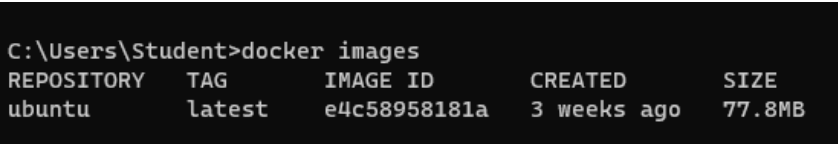


<b>Aim :</b>	To Implement 20 Docker commands.
1.	Command 1: docker --version  Screenshot 1: 
2.	Command 2: docker pull ubuntu  Screenshot 2: 
3.	Command 3: docker login  Screenshot 3: 
4.	Command 4: docker images  Screenshot 4: 
5.	Command 5: docker build -t image .  Screenshot 5:

	<pre>PS C:\Vinay&gt; docker build -t image . [+] Building 131.7s (10/10) FINISHED =&gt; [internal] load .dockerignore =&gt; =&gt; transferring context: 2B =&gt; [internal] load build definition from Dockerfile =&gt; =&gt; transferring dockerfile: 266B =&gt; [internal] load metadata for docker.io/library/ubuntu:latest =&gt; CACHED [1/5] FROM docker.io/library/ubuntu:latest =&gt; [internal] load build context =&gt; =&gt; transferring context: 633B =&gt; [2/5] RUN apt update -y =&gt; [3/5] RUN apt install nginx -y =&gt; [4/5] COPY index.html /usr/share/nginx/html/index.html =&gt; [5/5] COPY index.html /var/www/html/index.html =&gt; exporting to image =&gt; =&gt; exporting layers =&gt; =&gt; writing image sha256:7b06221168f9f1f1cbcca3310ca2fd52c9205581779641781b22cd9d722857f2 =&gt; =&gt; naming to docker.io/library/image</pre>
6.	<p>Command 6: docker container run image</p> <p>Screenshot 6:</p> 
7.	<p>Command 7: docker ps</p> 
8.	<p>Command 8: docker pull ubuntu:rolling</p> 
9.	<p>Command 9: docker search image</p> <p>Screenshot 9:</p>

NAME	DESCRIPTION	STARS	OFFICIAL
AUTOMATED			
alpine	A minimal Docker image based on Alpine Linux...	10381	[OK]
busybox	Busybox base image.	3118	[OK]
registry	Distribution implementation for storing and ...	3904	[OK]
nextcloud	Nextcloud manual docker image	3909	[OK]
eclipse-temurin	Official Images for OpenJDK binaries built b...	448	[OK]
websphere-liberty	WebSphere Liberty multi-architecture images ...	297	[OK]
sapmachine	Official SapMachine Docker Image, SAP's buil...	48	[OK]
ibmjava	Official IBM® SDK, Java™ Technology Edition ...	123	[OK]
open-liberty	Open Liberty multi-architecture images based...	62	[OK]
opensuse	DEPRECATED; for current images by the openSU...	336	[OK]
ibm-semeru-runtimes	IBM Semeru Runtimes Official Images for Open...	37	[OK]
eggdrop	The official Docker image of Eggdrop- IRC's ...	77	[OK]
express-gateway	DEPRECATED; The Official Docker Image of Exp...	74	[OK]
mageia	Official Mageia base image	44	[OK]
scratch	an explicitly empty image, especially for bu...	948	[OK]
intel/image-recognition	Containers for running image recognition wor...	2	
intel/image-segmentation	Containers for running image segmentation wo...	0	
docker/imagefs		9	
fluxcd/image-automation-controller	Automates updating YAML configs new new vers...	2	
fluxcd/image-reflector-controller	Scans container image repositories (like Doc...	1	
rancher/imagetextporter-6e7c518e6125f31761ebe0b96cc63971		0	
rancher/image-build-crictl		0	
paketobuildpacks/image-labels		0	
vulhub/imagemagick		0	
islandora/imagemagick		0	

10. Command 10: docker inspect image

```
PS C:\Vinay> docker inspect image
[
  {
    "Id": "sha256:7b06221168f9f1f1cbcca3310ca2fd52c9205581779641781b22cd9d722857f2",
    "RepoTags": [
      "image:latest"
    ],
    "RepoDigests": [],
    "Parent": "",
    "Comment": "buildkit.dockerfile.v0",
    "Created": "2023-10-30T05:04:03.2774534Z",

    "Container": "",
    "ContainerConfig": {
      "Hostname": "",
      "Domainname": "",
      "User": "",
```

Screenshot 10:

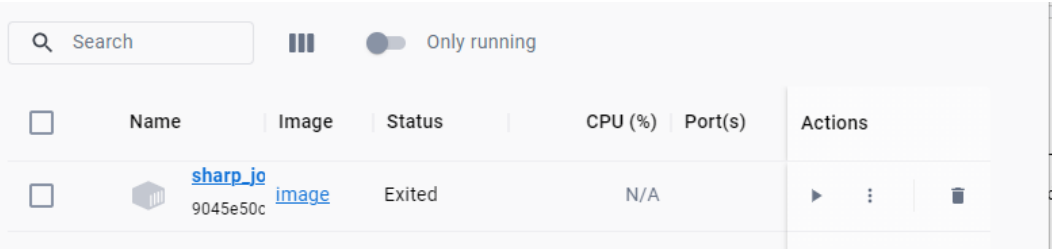
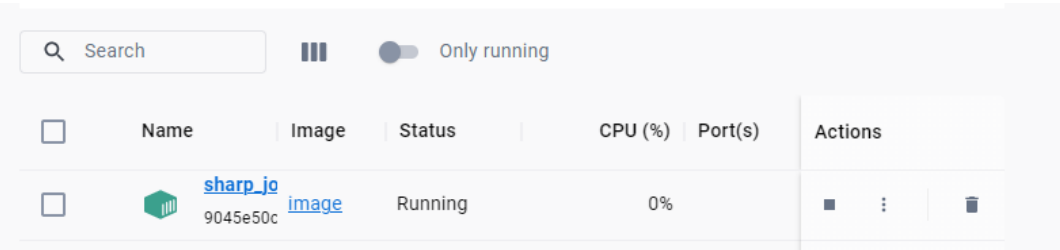
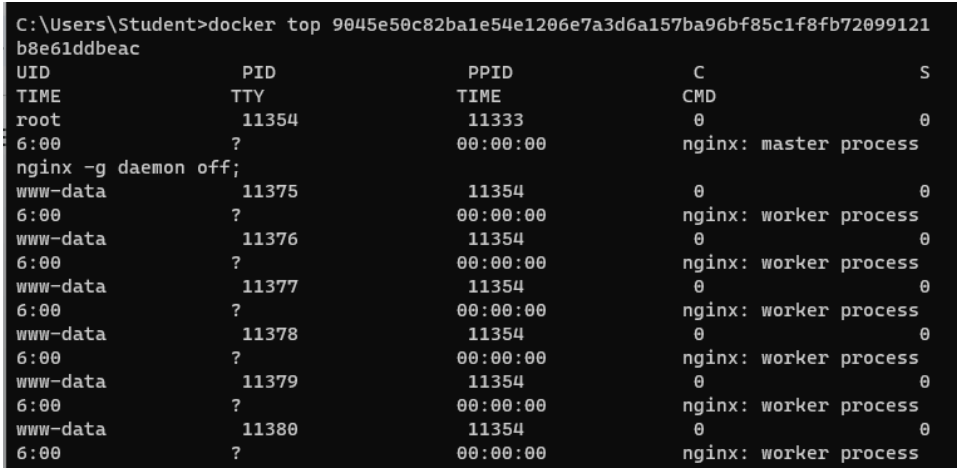
11. Command 11: docker history image

Screenshot 11:

```
PS C:\Vinay> docker history image
IMAGE          CREATED          CREATED BY          SIZE
-----
COMMENT
7b06221168f9   20 minutes ago  CMD ["nginx" "-g" "daemon off;"]  0B
  buildkit.dockerfile.v0
<missing>      20 minutes ago  COPY index.html /var/www/html/index.html # b...  594B
  buildkit.dockerfile.v0
<missing>      20 minutes ago  COPY index.html /usr/share/nginx/html/index...  594B
  buildkit.dockerfile.v0
<missing>      20 minutes ago  EXPOSE map[80/tcp:{}]  0B
  buildkit.dockerfile.v0
<missing>      20 minutes ago  RUN /bin/sh -c apt install nginx -y # buildk...  55.6MB
  buildkit.dockerfile.v0
<missing>      21 minutes ago  RUN /bin/sh -c apt update -y # buildkit  45.2MB
  buildkit.dockerfile.v0
<missing>      21 minutes ago  MAINTAINER "Shree Jaswal"  0B
  buildkit.dockerfile.v0
<missing>      3 weeks ago    /bin/sh -c #(nop) CMD ["/bin/bash"]  0B
<missing>      3 weeks ago    /bin/sh -c #(nop) ADD file:63d5ab3ef0aab308c...  77.8MB
<missing>      3 weeks ago    /bin/sh -c #(nop) LABEL org.opencontainers...  0B
<missing>      3 weeks ago    /bin/sh -c #(nop) LABEL org.opencontainers...  0B
<missing>      3 weeks ago    /bin/sh -c #(nop) ARG LAUNCHPAD_BUILD_ARCH  0B
<missing>      3 weeks ago    /bin/sh -c #(nop) ARG RELEASE  0B
```

12. Command 12: docker config

		<pre>PS C:\Vinay&gt; docker config  Usage:  docker config COMMAND  Manage Swarm configs  Commands:   create      Create a config from a file or STDIN   inspect     Display detailed information on one or more configs   ls          List configs   rm          Remove one or more configs  Run 'docker config COMMAND --help' for more information on a command.</pre>												
13.	Command 13: docker images -q	<p>Screenshot 12:</p> <pre>PS C:\Vinay&gt; docker images -q 7b06221168f9 fe7a3960a97e e4c58958181a</pre>												
14.	Command 14: docker rm a843e981183cb69063c72042b9bc20ec4c1797e5061bc2e2bb6c9f07670d89fa	<p>Screenshot 13:</p> <pre>PS C:\Vinay&gt; docker rm a843e981183cb69063c72042b9bc20ec4c1797e5061bc2e2bb6c9f07670d89fa a843e981183cb69063c72042b9bc20ec4c1797e5061bc2e2bb6c9f07670d89fa</pre> <p>Screenshot 14:</p>  <table><thead><tr><th>Name</th><th>Image</th><th>Status</th><th>CPU (%)</th><th>Port(s)</th><th>Actions</th></tr></thead><tbody><tr><td> sharp_jo 9045e50c</td><td><a href="#">image</a></td><td>Running</td><td>0%</td><td></td><td>  </td></tr></tbody></table>	Name	Image	Status	CPU (%)	Port(s)	Actions	 sharp_jo 9045e50c	<a href="#">image</a>	Running	0%		  
Name	Image	Status	CPU (%)	Port(s)	Actions									
 sharp_jo 9045e50c	<a href="#">image</a>	Running	0%		  									
15.	Command 15: docker rmi ubuntu	<p>Screenshot 15:</p> <pre>PS C:\Vinay&gt; docker rmi ubuntu Untagged: ubuntu:latest Untagged: ubuntu@sha256:2b7412e6465c3c7fc5bb21d3e6f1917c167358449fecac8176c6e496e5c1f05f Deleted: sha256:e4c58958181a5925816faa528ce959e487632f4cfd192f8132f71b32df2744b4</pre>												
16.	Command 16: docker stats 9045e50c82ba1e54e1206e7a3d6a157ba96bf85c1f8fb72099121b8e61ddbeac	<p>Screenshot 16:</p> <pre>CONTAINER ID   NAME          CPU %      MEM USAGE / LIM IT           MEM %      NET I/O    BLOCK I/O    PIDS 9045e50c82ba  sharp_joliot  0.00%      10.9MiB / 7.639 GiB          0.14%      1.37kB / 0B  0B / 0B      13</pre>												
17.	Command 17: docker stop 9045e50c82ba1e54e1206e7a3d6a157ba96bf85c1f8fb72099121b8e61ddbeac													

	<p>Screenshot 17:</p>  <p>The screenshot shows the Docker Desktop interface. At the top, there is a search bar and a toggle for 'Only running'. Below this is a table with columns: Name, Image, Status, CPU (%), Port(s), and Actions. The table contains one entry: 'sharp_je' with image '9045e50c' and status 'Exited'. The CPU usage is 'N/A'.</p>
18.	<p>Command 18: docker restart 9045e50c82ba1e54e1206e7a3d6a157ba96bf85c1f8fb72099121b8e61ddbeac</p> <p>Screenshot 18:</p>  <p>The screenshot shows the Docker Desktop interface. At the top, there is a search bar and a toggle for 'Only running'. Below this is a table with columns: Name, Image, Status, CPU (%), Port(s), and Actions. The table contains one entry: 'sharp_je' with image '9045e50c' and status 'Running'. The CPU usage is '0%'.</p>
19.	<p>Command 19: docker pause 9045e50c82ba1e54e1206e7a3d6a157ba96bf85c1f8fb72099121b8e61ddbeac</p> <p>Screenshot 19:</p>
20.	<p>Command 20: docker top 9045e50c82ba1e54e1206e7a3d6a157ba96bf85c1f8fb72099121b8e61ddbeac</p> <p>Screenshot 20:</p>  <pre> C:\Users\Student&gt;docker top 9045e50c82ba1e54e1206e7a3d6a157ba96bf85c1f8fb72099121b8e61ddbeac UID                PID                PPID                C                   S TIME              TTY               TIME               CMD root               11354             11333              0                   0 6:00              ?                 00:00:00           nginx: master process nginx -g daemon off; www-data           11375             11354              0                   0 6:00              ?                 00:00:00           nginx: worker process www-data           11376             11354              0                   0 6:00              ?                 00:00:00           nginx: worker process www-data           11377             11354              0                   0 6:00              ?                 00:00:00           nginx: worker process www-data           11378             11354              0                   0 6:00              ?                 00:00:00           nginx: worker process www-data           11379             11354              0                   0 6:00              ?                 00:00:00           nginx: worker process www-data           11380             11354              0                   0 6:00              ?                 00:00:00           nginx: worker process </pre>
21	<p>command:docker container create ubuntu</p>