TASK 5

Name: THESEGA P S

Rollno: 22CSR224

Step 1: Create a directory and navigate to the directory and install the git package using the following command:

mkdir pet

cd pet

apt install git

```
root@Swetha:~# midsir pet
root@Swetha:~# cd pet
root@Swetha:~# cd pet
root@Swetha:~# pt install git
Reading package lists... Done
Reading state information... Done
The following packages:
    git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn
The following packages will be upgraded:
    git git-man
    upgraded, 0 newly installed, 0 to remove and 129 not upgraded.
Need to get 4779 kB of archives.
After this openation, 2048 B of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 git-man all 1:2.43.0-lubuntu7.2 [1100 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 git amd64 1:2.43.0-lubuntu7.2 [3679 kB]
Fetched 4779 kB in 7s (717 kB/s)
(Reading database... 42856 files and directories currently installed.)
Preparing to unpack .../git-man.l%3a2.43.0-lubuntu7.2.all.deb ...
Unpacking git-man (1:2.43.0-lubuntu7.2) over (1:2.43.0-lubuntu7.1) ...
Preparing to unpack .../git_l%3a2.43.0-lubuntu7.2.and64.deb ...
Unpacking git (1:2.43.0-lubuntu7.2) over (1:2.43.0-lubuntu7.1) ...
Setting up git-man (1:2.43.0-lubuntu7.2) over (1:2.43.0-lubuntu7.2) ...
Setting up git (1:2.43.0-lubuntu7.2) over (1:2.43.0-lubuntu7.2) ...
Processing triggers for man-db (2:12.0-4build2) ...
Proceeds truncation objects: 100% (78/78), done.
remote: Total 7351 (delta 1060), reused 1033 (delta 1033), pack-reused 6240 (from 1)
Receiving objects: 100% (7351/7351), 3:12 MIB | 3:74 MIB/s, done.
Reading deltas: 100% (7351/7351), 3:12 MIB | 3:74 MIB/s, done.
Reading deltas: 100% (7351/7351), 3:12 MIB | 3:74 MIB/s, don
```

Step 2: By using the ls command check whether the required directory is exist or not

```
root@Swetha:~/pet# ls
spring-framework-petclinic
```

Step 3: Move to the directory and give Is command to check the file exist

```
root@Swetha:~/pet# cd spring-framework-petclinic
root@Swetha:~/pet/spring-framework-petclinic# ls
Jenkinsfile LICENSE.txt dockerfile mvnw mvnw.cmd pom.xml readme.md src
```

Step 4: Install the maven package using the command:

install maven

```
root@Swetha:~/pet/spring-framework-petclinic# install maven
install: missing destination file operand after 'maven'
Try 'install --help' for more information.
root@Swetha:~/pet/spring-framework-petclinic# sudo apt install maven
Reading package lists. . Done
Reading gackage lists. . Done
Reading state information... Done
The following additional packages will be installed:
libaopalliance-java libapache-pom-java libatinject-jsr330-api-java libcdi-api-java libcommons-cli-java
libcommons-io-java libcommons-lang3-java libicommons-parent-java liberror-prone-java
libgeronimo-annotation-1.3-spec-java libapacn-solver-java libmaven-shared-utils-java libguice-java libjansi-java
libjexus-cipher-java libplexus-classworlds-java libplexus-component-annotations-java libplexus-interpolation-java
libplexus-sec-dispatcher-java libplexus-utils2-java libsisu-inject-java libsisu-plexus-java libslf4j-java
libplexus-sec-dispatcher-java libplexus-utils2-java libsisu-inject-java libsisu-plexus-java libslf4j-java
Suggested packages:
libatinject-jsr330-api-java-doc libel-api-java libcommons-io-java-doc libama-en-shared-utils-java-doc liblogback-java libplexus-utils2-java-doc junit4 testng libcommons-logging-java
liblog4j1.2-java
The following NEW packages will be installed:
libaopalliance-java libcommons-lang3-java libstinject-jsr330-api-java libcor-java libguice-java libjansi-java
libjeronimo-annotation-1.3-spec-java libbatinject-jsr330-api-java libcus-ror-prone-java
libjeronimo-annotation-1.3-spec-java libberonimo-interceptor-3.0-spec-java libguava-java libguice-java libjansi-java
libjeronimo-annotation-1.3-spec-java libberonimo-interceptor-3.0-spec-java libguava-java libguice-java libjansi-java
libjeronimo-annotation-1.3-spec-java libberonimo-interceptor-3.0-spec-java libguava-java libguice-java libjansi-java
libjeronimo-annotation-java libpaven-resolver-java libbueva-shared-utils-java libgueva-interpolation-java
libjeronimo-annotation-java libpaven-resolver-java libpaven-shared-utils-java libgueva-interpolation-java
libjeronimo-annota
```

Step 5: Clean the maven packages using the command:

mvn clean

```
| Clarco | Scanning for projects... | Clarco | Scanning for projects... | Clarco | Clarco | Scanning for projects... | Clarco | C
```

```
etha:~/pet/spring-framework-petclinic# mvn install
Scanning for projects...
         s)

lloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/23/maven-plugins-23.pom

lloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/23/maven-plugins-23.pom

lloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-parent-22.pom

lloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent-22/maven-parent-22.pom (30 kB at 488 kB/s)

lloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/11/apache-11.pom

lloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/11/apache-11.pom

lloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.4/maven-install-plugin-2.4.jar

lloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.4/maven-install-plugin-2.4.jar

lloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.4/maven-install-plugin-2.4.jar
            --- maven-enforcer-plugin:3.4.l:enforce (enforce-maven) @ spring-framework-petclinic -- Rule 0: org.apache.maven.enforcer.rules.version.RequireMavenVersion passed
              --- jacoco-maven-plugin:0.8.11:prepare-agent (prepare-agent) @ spring-framework-petclinic ---
argline set to -javaagent:/root/.m2/repository/org/jacoco/org.jacoco.agent/0.8.11/org.jacoco.agent-0.8.11-runtime.jar=destfile=/root/pet/spring-frame
tclinic/target/jacoco.exec
            --- maven-resources-plugin:3.3.1:resources (default-resources) @ spring-framework-petclinic --- Copying 21 resources from src/main/resources to target/classes
            --- maven-compiler-plugin:3.11.0:compile (default-compile) @ spring-framework-petclinic ---
Changes detected - recompiling the module! :source
Compiling 47 source files with javac [debug target 17] to target/classes
           wetha:~/pet/spring-framework-petclinic# mvn package
Scanning for projects...
           --- maven-enforcer-plugin:3.4.1:enforce (enforce-maven) @ spring-framework-petclinic --- Rule 0: org.apache.maven.enforcer.rules.version.RequireMavenVersion passed
           --- jacoco-maven-plugin 0.8.11:prepare-agent (prepare-agent) @ spring-framework-petclinic ---
argline set to -javaagent:/root/.m2/repository/org/jacoco/org.jacoco.agent/0.8.11/org.jacoco.agent-0.8.11-runtime.jar=destfile=/root/pet/spring-framework-petclinic/jacoco.eye
           --- maven-resources-plugin:3.3.1:resources (default-resources) @ spring-framework-petclinic --- Copying 21 resources from src/main/resources to target/classes
           --- maven-compiler-plugin:3 11 0:compile (default-compile) @ spring-framework-petclinic ---
Nothing to compile - all classes are up to date
           --- maven-resources-plugin:3.3.1:testResources (default-testResources) @ spring-framework-petclinic ---
Copying 11 resources from src/testf/java to target/test-classes
Copying 1 resource from src/testf/resources to target/test-classes
           --- maven-compiler-plugin:3.11.0:testCompile (default-testCompile) @ spring-framework-petclinic --- Nothing to compile - all classes are up to date
           --- maven-surefire-plugin:3.2.3:test (default-test) @ spring-framework-petclinic --- Using auto detected provider org.apache.maven.surefire.junitplatform.JUnitPlatformProvider
           Running org.springframework.samples.petclinic.web.VisitControllerTests
(64-81t Server VM warning: Sharing is only supported for boot loader classes because bootstrap classpath has been appended
(ersion - HV9000001: Hibernate Validator 8.0.1.Final
root@Swetha:~/pet/spring-framework-petclinic# docker build -t pet .
[+] Building 58.3s (8/8) FINISHED
          Building 58.3s (8/8) FINISHED

[internal] load build definition from dockerfile

> transferring dockerfile: 1488

[internal] load metadata for docker.io/library/tomcat:latest

[auth] library/tomcat:pull token for registry-1.docker.io

[internal] load .dockerignore

> transferring context: 28

[internal] load build context

> transferring context: 708

[1/2] FROM docker.io/library/tomcat:latest@sha256:1374a565d5122fdb42807f3a5f2d4fcc245a5e15420ff5bb5123afedc8ef769c

> resolve docker.io/library/tomcat:latest@sha256:1374a565d5122fdb42807f3a5f2d4fcc245a5e15420ff5bb5123afedc8ef769c
```

```
root@Swetha:~/pet/spring-framework-petclinic# docker tag pet swethamurugesan/devopsgit:latest
root@Swetha:~/pet/spring-framework-petclinic# docker login
Authenticating with existing credentials...

WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
root@Swetha:~/pet/spring-framework-petclinic# docker push swethamurugesan/devopsgit:latest
The push refers to repository [docker.io/swethamurugesan/devopsgit]
d5697ba3545: Pushed
d5697ba3545: Pushed
f5706bf18a086: Mounted from library/tomcat
496:bbf2daa68: Mounted from library/tomcat
496:bbc2daa68: Mounted from library/tomcat
496:bbc2daa68: Mounted from library/tomcat
496:bbc2daa68: Mounted from library/tomcat
496:bbc2daa68: Mounted from library/tomcat
497:bbc2daa68: Mounted from library/tomcat
407:bcc2daa68: Mounted from library/tomc
```