1. Build a branching model to help your team understand the Git workflow for faster integration of work.

Steps:

- ➢ Installing Git
- ➢ Check its version
  - • $git -v / $git --version

- ➢ Configuration
  - • $git config –global user.name [any name]
  - • $git config –global user.email [any email]
  - • Check it:
    - o $git config –global user.name
    - o $git config –global user.email

- ➢ Create a repository
  - • $mkdir [any folder name] //Create a New Folder
  - • $cd [any folder name]
  - • $git init   //It will create .git folder(Hidden Folder)

➢ Adding file in that folder
  • Create a file "welcome.html" with 1-2 heading content any message

📁 .git	01-07-2024 08:04 PM	File folder	
🌐 welcome	01-07-2024 08:07 PM	Chrome HTML Do…	1 KB

➢ Check Status
  • $git status   //File Stages/ Modified/ Untracked

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        welcome.html

nothing added to commit but untracked files present (use "git add" to track)
```

➢ Add welcome.html file
  • $git add welcome.html

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git add welcome.html
```

➢ Create one more file contact.html and add some content (add 1 line message) in welcome.html file
  • $git add –all / $git add -A
  • $git status

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git add --all

NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   welcome.html
```

➢ Commit
  • $git commit -m "This is First Commit"

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git commit -m "First Commit"
[master (root-commit) 46c5cab] First Commit
 1 file changed, 5 insertions(+)
 create mode 100644 welcome.html

NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git status
On branch master
nothing to commit, working tree clean
```

➢ Work with Git branches
  • $git branch   //Check branch status
  • $git branch [new branch name]
  • $git branch

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git branch
* master

NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git branch new_branch

NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git branch
* master
  new_branch
```

➢ Switch between the branches
  • $git checkout [new branch name]
  • $git branch   //Check which is active branch

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git checkout new_branch
Switched to branch 'new_branch'

NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (new_branch)
$ git branch
  master
* new_branch
```

➢ In new branch
- Add some content (add 1 Image) in welcome.html
- Add that image in same directory
- Using $git add command, add these welcome.html and image
- Command with messages

📁 .git	01-07-2024 08:16 PM	File folder	
🔴 welcome	01-07-2024 08:19 PM	Chrome HTML Do…	1 KB
🖼️ img	27-08-2023 11:25 AM	JPG File	376 KB

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practicals/prac_1 (new_branch)
$ git add img.jpg

NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practicals/prac_1 (new_branch)
$ git status
On branch new_branch
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   img.jpg
```

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (new_branch)
$ git commit -m "Second Commit"
[new_branch b172952] Second Commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 image.jpg
```

➢ Now check both branches

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git diff master
diff --git a/welcome.html b/welcome.html
index 44bc1c8..506df70 100644
--- a/welcome.html
+++ b/welcome.html
@@ -1,5 +1,6 @@
 <html>
   <body>
     <h2>Welcome to Git</h2>
+    <img src='img.jpg'>
   </body>
 </html>
\ No newline at end of file

NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git diff new_branch
diff --git a/img.jpg b/img.jpg
deleted file mode 100644
index 859dac0..0000000
Binary files a/img.jpg and /dev/null differ
diff --git a/welcome.html b/welcome.html
index 44bc1c8..506df70 100644
--- a/welcome.html
+++ b/welcome.html
@@ -1,5 +1,6 @@
 <html>
   <body>
     <h2>Welcome to Git</h2>
+    <img src='img.jpg'>
   </body>
 </html>
\ No newline at end of file
```

➢ You might delete the branch
  • $git branch -D [new branch name]

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git branch -D new_branch
Deleted branch new_branch (was b172952).
```

GitHub Concept:

- ➢ Create an account on https://github.com

- ➢ Create a Repository
  - Give any name for repository make it public or private, add or don't add the README file, just create it the way you want.

- ➢ PUSH files into this Repository
  - Copy your Repository URL
    - i.e. https://github.com/Nandan1012002/DevOps_Prac1
  - Open the CMD and add the command $git remote add origin URL
    - $git remote add origin https://github.com/Nandan1012002/DevOps_Prac1

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git remote add origin https://github.com/Nandan1012002/DevOps_Prac1
```

  - Push all files in GitHub
    - $git push -u origin [branch name]

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 269 bytes | 269.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:      https://github.com/Nandan1012002/DevOps_Prac1/pull/new/master
remote:
To https://github.com/Nandan1012002/DevOps_Prac1
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```

- ➢ PULL files into Local Repository from GitHub
  - Goto GitHub Repository and add one file about.html and commit it to GitHub's project
  - $git pull origin   //This file will be available in local folder

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git pull origin
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 875 bytes | 218.00 KiB/s, done.
From https://github.com/Nandan1012002/DevOps_Prac1
 * [new branch]      main         -> origin/main
Already up to date.
```

➢ Make some changes in about.html
  • Add some content

➢ Again, add and commit in cmd
  • $git add about.html
  • $git commit -m "Updated"
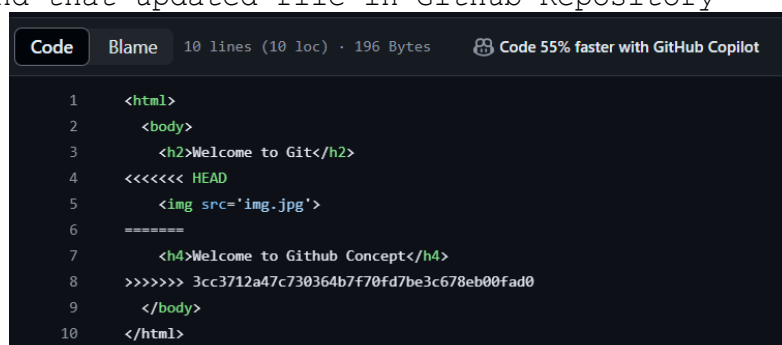
```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git add welcome.html
```

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git commit -m "Updated"
[master 05ff208] Updated
 1 file changed, 1 insertion(+)
```

➢ Then again push it on GitHub
  • $git push origin

```
NANDAN@PHANTOM MINGW64 /d/Marwadi University/SEMESTER - 7/DEVOPS ESSENTIALS ( 01
CE0717 )/Lab Practical/Practical - 1/prac_1 (master)
$ git push origin
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 699 bytes | 699.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Nandan1012002/DevOps_Prac1
   3cc3712..1a98f54  master -> master
```

➢ You will find that updated file in GitHub Repository

2. Maven and Gradle environmental setup for java application

Steps: Maven

- JDK 8 or Above
- Download Maven
- Extract zip at that the desired folder
- Search bin folder and copy path and paste it in system variable
- Check maven version
  - $mvn -v

```
C:\Users\NANDAN>mvn -v
Apache Maven 3.9.8 (36645f6c9b5079805ea5009217e36f2cffd34256)
Maven home: D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\apache-maven-3.9.
8
Java version: 21.0.1, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk-21
Default locale: en_IN, platform encoding: UTF-8
OS name: "windows 11", version: "10.0", arch: "amd64", family: "windows"
```

- Now create maven project using command
 - mvn archetype:generate -DgroupId=com.7TC5.app -DartifactId=firstmavenapp -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2>mvn archetype:generate -DgroupId=com.7TC5.app -DartifactId
=firstmavenapp -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false
[INFO] Scanning for projects...
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.2.0/maven-clean-plugin-3.2.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.2.0/maven-clean-plugin-3.2.0.pom (5.3 kB at 8.6
kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/35/maven-plugins-35.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/35/maven-plugins-35.pom (9.9 kB at 160 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/35/maven-parent-35.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/35/maven-parent-35.pom (45 kB at 580 kB/s)
```

```
[INFO] ----------------------------------------------------------------------
[INFO] Using following parameters for creating project from Archetype: maven-archetype-quickstart:1.4
[INFO] ----------------------------------------------------------------------
[INFO] Parameter: groupId, Value: com.7TC5.app
[INFO] Parameter: artifactId, Value: firstmavenapp
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.7TC5.app
[INFO] Parameter: packageInPathFormat, Value: com/7TC5/app
[INFO] Parameter: package, Value: com.7TC5.app
[INFO] Parameter: groupId, Value: com.7TC5.app
[INFO] Parameter: artifactId, Value: firstmavenapp
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenap
p
[INFO] ----------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ----------------------------------------------------------------------
[INFO] Total time:  02:07 min
[INFO] Finished at: 2024-07-29T09:34:03+05:30
[INFO] ----------------------------------------------------------------------
```

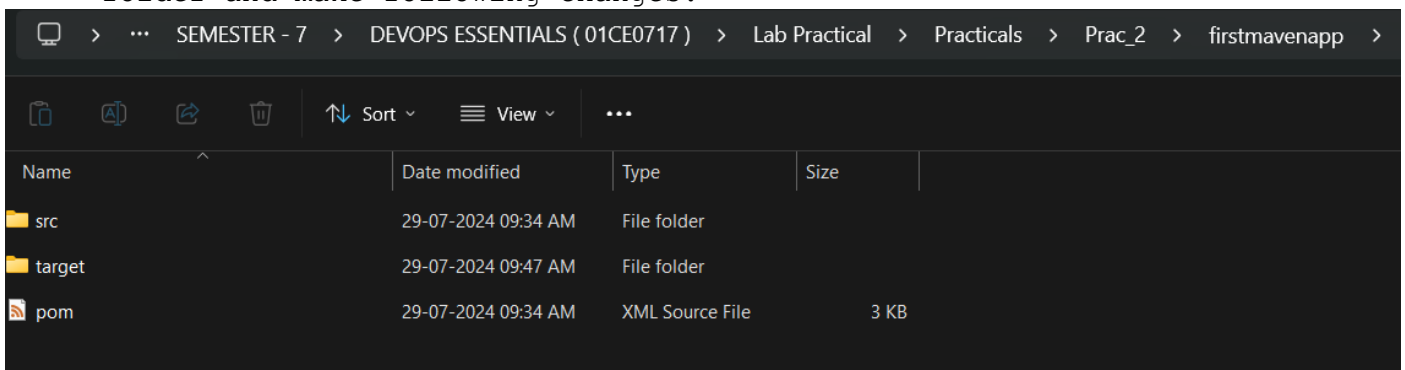- Once the project is created; build package
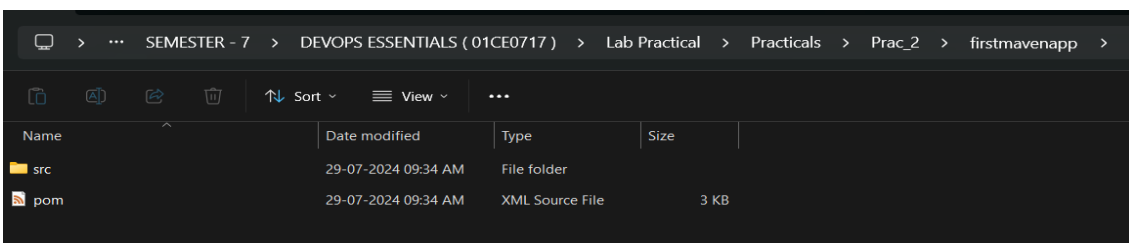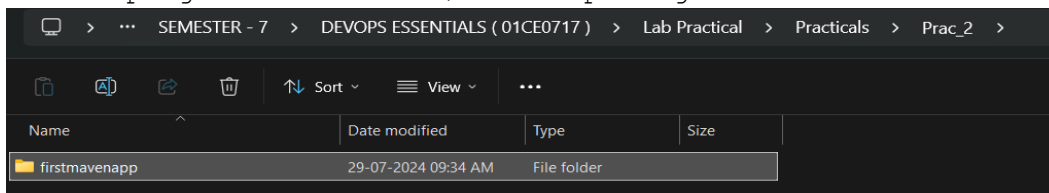
➢ Follow maven life cycle:
  • $mvn validate

```
D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2>cd firstmavenapp

D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>mvn validate
[INFO] Scanning for projects...
[INFO]
[INFO] -------------------< com.7TC5.app:firstmavenapp >--------------------
[INFO] Building firstmavenapp 1.0-SNAPSHOT
[INFO]    from pom.xml
[INFO] --------------------------------[ jar ]---------------------------------
[INFO]
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  0.093 s
[INFO] Finished at: 2024-07-29T09:46:51+05:30
[INFO] ------------------------------------------------------------------------
```

  • $mvn compile

```
D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>mvn compile
[INFO] Scanning for projects...
[INFO]
[INFO] -------------------< com.7TC5.app:firstmavenapp >--------------------
[INFO] Building firstmavenapp 1.0-SNAPSHOT
[INFO]    from pom.xml
[INFO] --------------------------------[ jar ]---------------------------------
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.pom (7.1 kB
at 9.0 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/30/maven-plugins-30.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/30/maven-plugins-30.pom (10 kB at 12 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/maven-resources-plugin-3.0.2.jar (32 kB
at 102 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/maven-compiler-plugin-3.8.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.8.0/maven-compiler-plugin-3.8.0.pom (12 kB at
50 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/32/maven-plugins-32.pom
```

```
Downloaded from central: https://repo.maven.apache.org/maven2/com/thoughtworks/qdox/qdox/2.0-M9/qdox-2.0-M9.jar (317 kB at 308 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/ow2/asm/asm/6.2/asm-6.2.jar (111 kB at 55 kB/s)
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\target\cla
sses
[INFO] -------------------------------------------------------------
[ERROR] COMPILATION ERROR :
[INFO] -------------------------------------------------------------
[ERROR] Source option 7 is no longer supported. Use 8 or later.
[ERROR] Target option 7 is no longer supported. Use 8 or later.
[INFO] 2 errors
[INFO] -------------------------------------------------------------
[INFO] ------------------------------------------------------------------------
[INFO] BUILD FAILURE
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  36.119 s
[INFO] Finished at: 2024-07-29T09:47:54+05:30
[INFO] ------------------------------------------------------------------------
[ERROR] Failed to execute goal org.apache.maven.plugins:maven-compiler-plugin:3.8.0:compile (default-compile) on project firstmavenapp: Compilation failure:
Compilation failure:
[ERROR] Source option 7 is no longer supported. Use 8 or later.
[ERROR] Target option 7 is no longer supported. Use 8 or later.
[ERROR] -> [Help 1]
[ERROR]
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR]
[ERROR] For more information about the errors and possible solutions, please read the following articles:
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MojoFailureException
```

➢ It shows error of version not supported so go to pom.xml file in project folder and make following changes:

Name	Date modified	Type	Size
src	29-07-2024 09:34 AM	File folder	
target	29-07-2024 09:47 AM	File folder	
pom	29-07-2024 09:34 AM	XML Source File	3 KB

```xml
<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <maven.compiler.source>1.7</maven.compiler.source>
  <maven.compiler.target>1.7</maven.compiler.target>
</properties>
```

```xml
<groupId>com.7TC5.app</groupId>
<artifactId>firstmavenapp</artifactId>
<version>1.0-SNAPSHOT</version>

<name>firstmavenapp</name>
<!-- FIXME change it to the project's website -->
<url>http://www.example.com</url>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <maven.compiler.source>1.8</maven.compiler.source>
  <maven.compiler.target>1.8</maven.compiler.target>
</properties>
```

➢ Now again run the following command:
  • $mvn compile

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>mvn compile
[INFO] Scanning for projects...
[INFO]
[INFO] --------------------< com.7TC5.app:firstmavenapp >--------------------
[INFO] Building firstmavenapp 1.0-SNAPSHOT
[INFO]    from pom.xml
[INFO] --------------------------------[ jar ]---------------------------------
[INFO]
[INFO] --- resources:3.0.2:resources (default-resources) @ firstmavenapp ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\s
rc\main\resources
[INFO]
[INFO] --- compiler:3.8.0:compile (default-compile) @ firstmavenapp ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\target\cla
sses
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  1.125 s
[INFO] Finished at: 2024-07-29T09:55:04+05:30
[INFO] ------------------------------------------------------------------------
```

- $mvn test

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>mvn test
[INFO] Scanning for projects...
[INFO]
[INFO] ---------------------< com.7TC5.app:firstmavenapp >---------------------
[INFO] Building firstmavenapp 1.0-SNAPSHOT
[INFO]    from pom.xml
[INFO] --------------------------------[ jar ]---------------------------------
[INFO]
[INFO] --- resources:3.0.2:resources (default-resources) @ firstmavenapp ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\s
rc\main\resources
[INFO]
[INFO] --- compiler:3.8.0:compile (default-compile) @ firstmavenapp ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\target\cla
sses
[INFO]
[INFO] --- resources:3.0.2:testResources (default-testResources) @ firstmavenapp ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\s
rc\test\resources
```
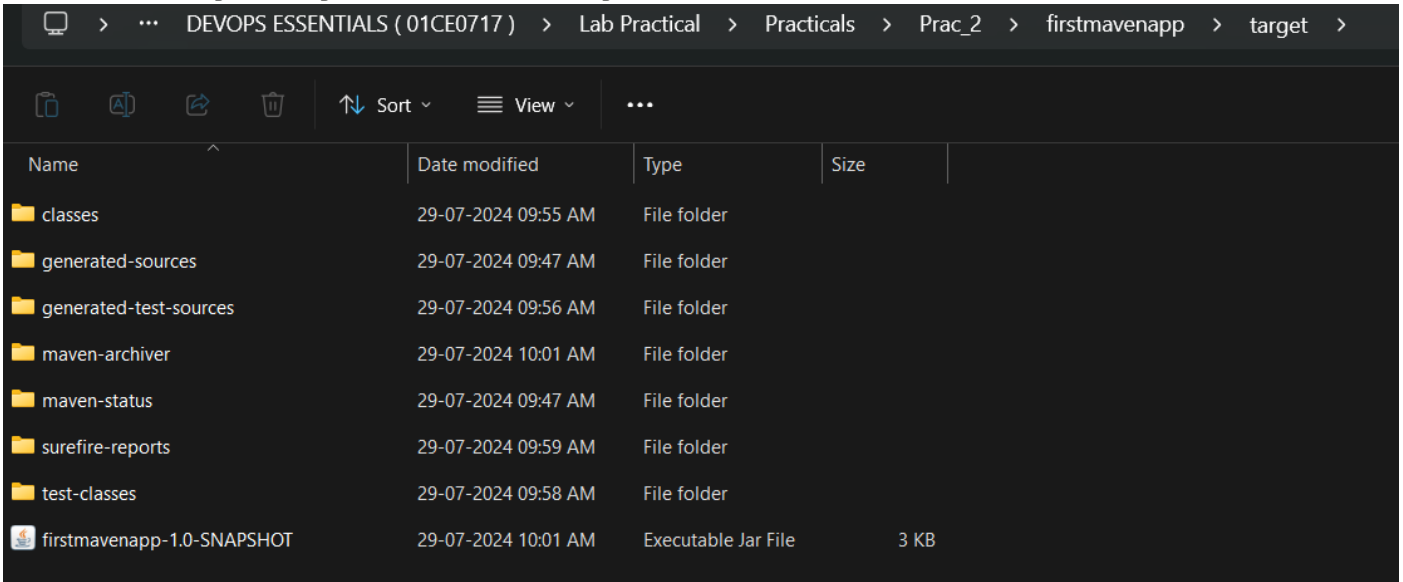
```
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.pom (3.1 kB at 6.9 kB/
s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-providers/2.22.1/surefire-providers-2.22.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-providers/2.22.1/surefire-providers-2.22.1.pom (2.5 kB at 1
.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit4/2.22.1/surefire-junit4-2.22.1.jar (85 kB at 29 kB/s)
[INFO]
[INFO] -------------------------------------------------------
[INFO]  T E S T S
[INFO] -------------------------------------------------------
[INFO] Running com.TC5.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.031 s - in com.TC5.app.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  01:16 min
[INFO] Finished at: 2024-07-29T09:59:57+05:30
[INFO] ------------------------------------------------------------------------
```

- $mvn package

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>mvn package
[INFO] Scanning for projects...
[INFO]
[INFO] ---------------------< com.7TC5.app:firstmavenapp >---------------------
[INFO] Building firstmavenapp 1.0-SNAPSHOT
[INFO]    from pom.xml
[INFO] --------------------------------[ jar ]---------------------------------
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.pom (6.2 kB at 2.2 kB/s
)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-jar-plugin-3.0.2.jar (27 kB at 58 kB/s)
[INFO]
[INFO] --- resources:3.0.2:resources (default-resources) @ firstmavenapp ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\s
rc\main\resources
[INFO]
[INFO] --- compiler:3.8.0:compile (default-compile) @ firstmavenapp ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\target\cla
```

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/2.7.1/plexus-io-2.7.1.jar (86 kB at 16 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.4/plexus-archiver-3.4.jar (187 kB at 35 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/tukaani/xz/1.5/xz-1.5.jar (100 kB at 18 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/3.0.1/maven-shared-utils-3.0.1.jar (154 kB at 23 kB
/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compress-1.11.jar (426 kB at 24 kB/s)
[INFO] Building jar: D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\target\firstmavenapp-1.
0-SNAPSHOT.jar
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  29.498 s
[INFO] Finished at: 2024-07-29T10:01:36+05:30
[INFO] ------------------------------------------------------------------------
```

➢ Goto inside target folder
  • $cd target
  • $java -jar [file name].jar

Name	Date modified	Type	Size
classes	29-07-2024 09:55 AM	File folder	
generated-sources	29-07-2024 09:47 AM	File folder	
generated-test-sources	29-07-2024 09:56 AM	File folder	
maven-archiver	29-07-2024 10:01 AM	File folder	
maven-status	29-07-2024 09:47 AM	File folder	
surefire-reports	29-07-2024 09:59 AM	File folder	
test-classes	29-07-2024 09:58 AM	File folder	
firstmavenapp-1.0-SNAPSHOT	29-07-2024 10:01 AM	Executable Jar File	3 KB

```
D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\target>java -jar firstmavenapp-1.0-SNAPSHOT.jar
no main manifest attribute, in firstmavenapp-1.0-SNAPSHOT.jar
```

➢ if it shows no main manifest attribute error then, add the following code:

```
<plugin>
  <artfactId> maven-jar-plugin</artifactId>
    <version>3.0.2</version>
      <configuration>
        <archive>
          <manifest>
            <addClasspath>true</addClasspath>
            <mainClass>com.TC5.app.App</mainClass>
          </manifest>
        </archive>
      </configuration>
</plugin>
```

```
<plugin>
  <artifactId>maven-surefire-plugin</artifactId>
  <version>2.22.1</version>
</plugin>
<plugin>
  <artifactId>maven-jar-plugin</artifactId>
  <version>3.0.2</version>
  <configuration>
    <archive>
      <manifest>
        <addClasspath>true</addClasspath>
        <mainClass>com.TC5.app.App</mainClass>
      </manifest>
    </archive>
  </configuration>
</plugin>
<plugin>
  <artifactId>maven-install-plugin</artifactId>
  <version>2.5.2</version>
</plugin>
```

➢ Come back to project folder
  • $cd..

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\target>cd..
```

➢ Then clean package
  • $mvn clean package

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>mvn clean package
[INFO] Scanning for projects...
[INFO]
[INFO] --------------------< com.7TC5.app:firstmavenapp >---------------------
[INFO] Building firstmavenapp 1.0-SNAPSHOT
[INFO]   from pom.xml
[INFO] --------------------------------[ jar ]---------------------------------
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-clean-plugin-3.1.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-clean-plugin-3.1.0.pom (5.2 kB at 7.2 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/31/maven-plugins-31.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/31/maven-plugins-31.pom (10 kB at 95 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-clean-plugin-3.1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-clean-plugin-3.1.0.jar (30 kB at 195 kB/s)
[WARNING] Parameter 'archive' is unknown for plugin 'maven-resources-plugin:3.0.2:resources (default-resources)'
[WARNING] Parameter 'archive' is unknown for plugin 'maven-resources-plugin:3.0.2:testResources (default-testResources)'
[INFO]
[INFO] --- clean:3.1.0:clean (default-clean) @ firstmavenapp ---
[INFO] Deleting D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\target
[INFO]
```

```
[INFO]
[INFO]
[INFO] --- jar:3.0.2:jar (default-jar) @ firstmavenapp ---
[INFO] Building jar: D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\target\firstmavenapp-1.0-SNAPSHOT.jar
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  2.608 s
[INFO] Finished at: 2024-07-29T10:30:23+05:30
[INFO] ------------------------------------------------------------------------
```

➢ Now again go to target folder and execute following code:
  • $java -jar [jar file name].jar

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>cd target

D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp\target>java -jar firstmavenapp-1.0-SNAPSHOT.jar
Hello World!
```

➢ Successfully we got the output of java code: "Hello World".

Steps: Gradle

- ➢ JDK 8 or Above
- ➢ Download Gradle
- ➢ Extract zip at that the desired folder
- ➢ Search bin folder and copy path and paste it in system variable
- ➢ Check Gradle Version
  - • $gradle -v

```
C:\Users\NANDAN>gradle -v

Welcome to Gradle 8.9!

Here are the highlights of this release:
 - Enhanced Error and Warning Messages
 - IDE Integration Improvements
 - Daemon JVM Information

For more details see https://docs.gradle.org/8.9/release-notes.html


------------------------------------------------------------
Gradle 8.9
------------------------------------------------------------


Build time:     2024-07-11 14:37:41 UTC
Revision:       d536ef36a19186ccc596d8817123e5445f30fef8

Kotlin:         1.9.23
Groovy:         3.0.21
Ant:            Apache Ant(TM) version 1.10.13 compiled on January 4 2023
Launcher JVM:   21.0.1 (Oracle Corporation 21.0.1+12-LTS-29)
Daemon JVM:     C:\Program Files\Java\jdk-21 (no JDK specified, using current Java home)
OS:             Windows 11 10.0 amd64
```

- ➢ $gradle init

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2_gradle>gradle init
Starting a Gradle Daemon (subsequent builds will be faster)

Select type of build to generate:
  1: Application
  2: Library
  3: Gradle plugin
  4: Basic (build structure only)
Enter selection (default: Application) [1..4] 1

Select implementation language:
  1: Java
  2: Kotlin
  3: Groovy
  4: Scala
  5: C++
  6: Swift
Enter selection (default: Java) [1..6] 1

Enter target Java version (min: 7, default: 21): 21

Project name (default: Prac_2_gradle): test_gradle

Select application structure:
  1: Single application project
  2: Application and library project
Enter selection (default: Single application project) [1..2] 1
```

```
Select build script DSL:
  1: Kotlin
  2: Groovy
Enter selection (default: Kotlin) [1..2] 1

Select test framework:
  1: JUnit 4
  2: TestNG
  3: Spock
  4: JUnit Jupiter
Enter selection (default: JUnit Jupiter) [1..4] 1

Generate build using new APIs and behavior (some features may change in the next minor release)? (default: no) [yes, no]
 no


> Task :init
Learn more about Gradle by exploring our Samples at https://docs.gradle.org/8.9/samples/sample_building_java_applications.html

BUILD SUCCESSFUL in 1m 14s
1 actionable task: 1 executed
```

➢ `$gradle tasks`

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2_gradle>gradle tasks

> Task :tasks

------------------------------------------------------------
Tasks runnable from root project 'test_gradle'
------------------------------------------------------------

Application tasks
-----------------
run - Runs this project as a JVM application

Build tasks
-----------
assemble - Assembles the outputs of this project.
build - Assembles and tests this project.
buildDependents - Assembles and tests this project and all projects that depend on it.
buildNeeded - Assembles and tests this project and all projects it depends on.
classes - Assembles main classes.
clean - Deletes the build directory.
jar - Assembles a jar archive containing the classes of the 'main' feature.
testClasses - Assembles test classes.

Build Setup tasks
-----------------
init - Initializes a new Gradle build.
updateDaemonJvm - Generates or updates the Gradle Daemon JVM criteria.
wrapper - Generates Gradle wrapper files.

Distribution tasks
------------------
assembleDist - Assembles the main distributions
distTar - Bundles the project as a distribution.
distZip - Bundles the project as a distribution.
installDist - Installs the project as a distribution as-is.

Documentation tasks
-------------------
javadoc - Generates Javadoc API documentation for the 'main' feature.
```

```
dependencies - Displays all dependencies declared in root project 'test_gradle'.
dependencyInsight - Displays the insight into a specific dependency in root project 'test_gradle'.
help - Displays a help message.
javaToolchains - Displays the detected java toolchains.
kotlinDslAccessorsReport - Prints the Kotlin code for accessing the currently available project extensions and conventions.
outgoingVariants - Displays the outgoing variants of root project 'test_gradle'.
projects - Displays the sub-projects of root project 'test_gradle'.
properties - Displays the properties of root project 'test_gradle'.
resolvableConfigurations - Displays the configurations that can be resolved in root project 'test_gradle'.
tasks - Displays the tasks runnable from root project 'test_gradle' (some of the displayed tasks may belong to subprojects).

Verification tasks
------------------
check - Runs all checks.
test - Runs the test suite.

To see all tasks and more detail, run gradle tasks --all

To see more detail about a task, run gradle help --task <task>

BUILD SUCCESSFUL in 22s
1 actionable task: 1 executed
```

> $gradle build

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2_gradle>gradle build

BUILD SUCCESSFUL in 5s
7 actionable tasks: 7 executed
```

> $gradle run

```
D:\Marwadi University\SEMESTER - 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2_gradle>gradle run

> Task :app:run
Hello World!

BUILD SUCCESSFUL in 849ms
2 actionable tasks: 1 executed, 1 up-to-date
```

3. Create Jenkins job and pipeline it from GitHub repository to run using build.

Steps:

- ➢ Push the maven application on GitHub;(Maven Application which we created in 2nd Practical)
  - • Goto second practical Maven Application folder
  - • Open CMD
  - • $git init   //Initialize git
  - • $git add -A   //Add all files in stage area
  - • $git commit –m "commit maven application"
  - • $git remote add origin
  - • $git push –u main/master //write any one branch name //check your branch name

```
D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>echo "# MavenApplication" >> README.md

D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>git init
Initialized empty Git repository in D:/Marwadi University/SEMESTER – 7/DEVOPS ESSENTIALS ( 01CE0717 )/Lab Practical/Practicals/Prac_2/firstmavenapp/.git/

D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>git add README.md

D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>commit -m "first commit"
[master (root-commit) b769153] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>git branch -M main

D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>git remote add origin https://github.com/Nan
dan1012002/MavenApplication.git

D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>git push –u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 239 bytes | 239.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Nandan1012002/MavenApplication.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

```
D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>git add .\
warning: in the working copy of 'target/maven-status/maven-compiler-plugin/compile/default-compile/createdFiles.lst', LF will be replaced by CRLF the next t
ime Git touches it
warning: in the working copy of 'target/maven-status/maven-compiler-plugin/compile/default-compile/inputFiles.lst', LF will be replaced by CRLF the next tim
e Git touches it
warning: in the working copy of 'target/maven-status/maven-compiler-plugin/testCompile/default-testCompile/createdFiles.lst', LF will be replaced by CRLF th
e next time Git touches it
warning: in the working copy of 'target/maven-status/maven-compiler-plugin/testCompile/default-testCompile/inputFiles.lst', LF will be replaced by CRLF the
next time Git touches it

D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>git commit -m "commit maven application"
[main a591018] commit maven application
 13 files changed, 190 insertions(+)
 create mode 100644 pom.xml
 create mode 100644 src/main/java/com/7TC5/app/App.java
 create mode 100644 src/test/java/com/7TC5/app/AppTest.java
 create mode 100644 target/classes/com/TC5/app/App.class
 create mode 100644 target/firstmavenapp-1.0-SNAPSHOT.jar
 create mode 100644 target/maven-archiver/pom.properties
 create mode 100644 target/maven-status/maven-compiler-plugin/compile/default-compile/createdFiles.lst
 create mode 100644 target/maven-status/maven-compiler-plugin/compile/default-compile/inputFiles.lst
 create mode 100644 target/maven-status/maven-compiler-plugin/testCompile/default-testCompile/createdFiles.lst
 create mode 100644 target/maven-status/maven-compiler-plugin/testCompile/default-testCompile/inputFiles.lst
 create mode 100644 target/surefire-reports/TEST-com.TC5.app.AppTest.xml
 create mode 100644 target/surefire-reports/com.TC5.app.AppTest.txt
 create mode 100644 target/test-classes/com/TC5/app/AppTest.class

D:\Marwadi University\SEMESTER – 7\DEVOPS ESSENTIALS ( 01CE0717 )\Lab Practical\Practicals\Prac_2\firstmavenapp>git push
Enumerating objects: 44, done.
Counting objects: 100% (44/44), done.
Delta compression using up to 8 threads
Compressing objects: 100% (19/19), done.
Writing objects: 100% (43/43), 7.67 KiB | 1.28 MiB/s, done.
Total 43 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/Nandan1012002/MavenApplication.git
   b769153..a591018  main -> main
```
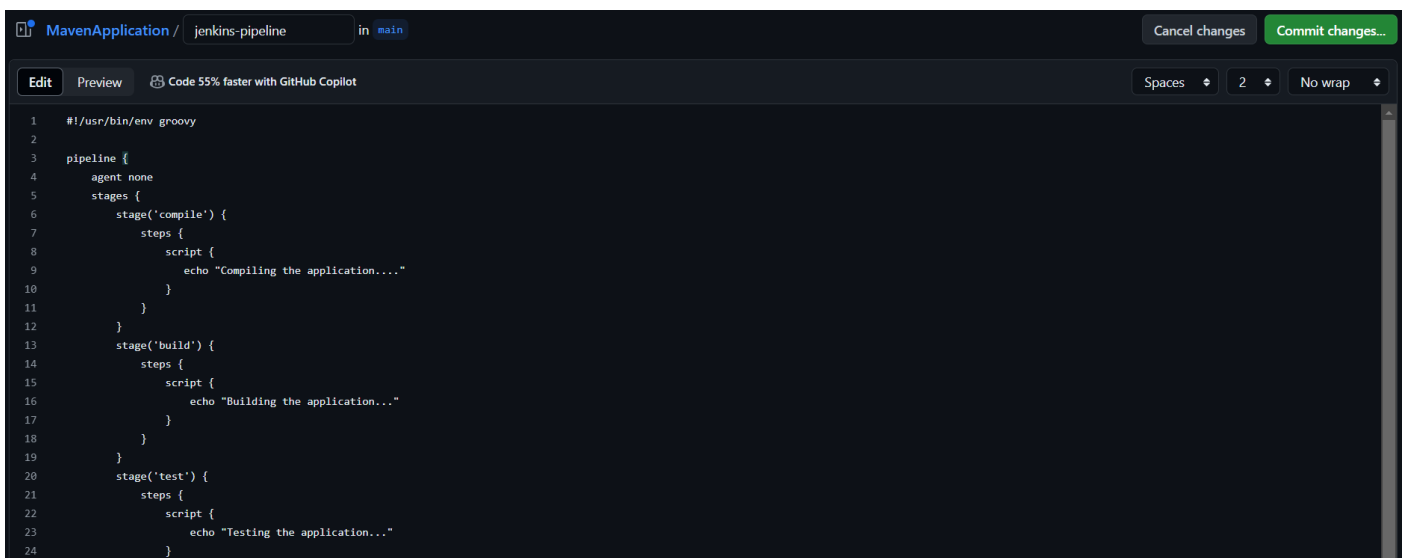
➢ **Pipeline Script**
  - Create a new-file in git repository
  - Give name "jenkins-pipelin"
  - Write the following

```groovy
#!/usr/bin/env groovy


pipeline {

  agent none

  stages {

    stage('compile') {

      steps {

        script {

          echo "Compiling the application...."

        }

      }

    }

    stage('build') {

      steps {

        script {

          echo "Building the application..."

        }

      }

    }

    stage('test') {

      steps {

        script {

          echo "Testing the application..."

        }

      }

    }
```

```
stage('deploy') {

        steps {

            script {

                echo "Deploying the application..."

            }

        }

    }

  }

}
```


- Click on "**Commit and Save**"

➢ Open Jenkins Dashboard
➢ Click on "**Manage Jenkins**"
    - Select "Plugins"
        o Select "Available Plugins"
        o Search: "**pipeline:stage view**"
        o Click on "**Install**"

➢ Click on "**Dashboard**"
➢ Click on "**New Item**"
➢ Give Project Name i.e. "TC5_A_Prac-3"
➢ Select "**Pipeline**" job type
➢ Click on "**OK**"

New Item

Enter an item name

TC5_A_Prac-3

Select an item type

Freestyle project
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

OK

➢ Give few words description "First Pipeline Job"

General   Enabled

Description
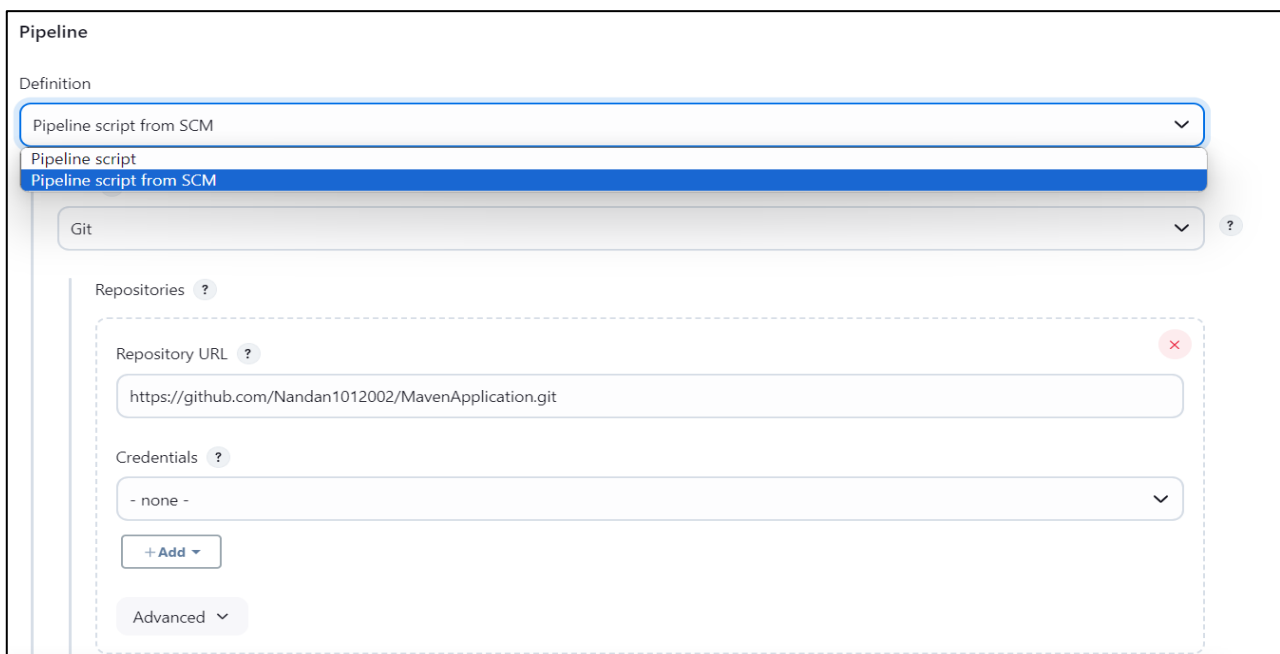
"First Pipeline Job"

Plain text Preview

☐ Discard old builds ?

☐ Do not allow concurrent builds

☐ Do not allow the pipeline to resume if the controller restarts

☐ GitHub project

☐ Pipeline speed/durability override ?

☐ Preserve stashes from completed builds ?

➢ Go to "Pipeline"
- There are two option (i)Pipeline Script (ii)Pipeline script from SCM
- Select option two (ii)Pipeline script from SCM
- SCM -> Git -> Paste your Git repository link in **"Repository URL"** field
  o Credentials->None //because in your git repository is public; no need of username-password
- **Branches to Build**
  o */main //check your branch name in your git repository and then write
- **Script Path**
  o "jenkins-pipeline" //which we have created in our git repository; give the same name

➢ Click on "**Apply**" and then click on "**Save**"
➢ Click on "**Build Now**"
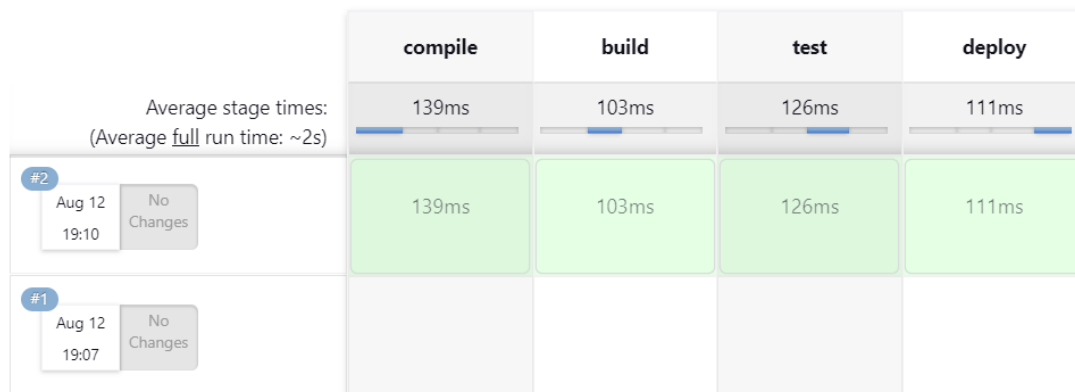
✅ Console Output

⤓ Download   ⧉ Copy   View as plain text

```
Started by user Nandan Bhimani
Obtained jenkins-pipeline from git https://github.com/Nandan1012002/MavenApplication.git
[Pipeline] Start of Pipeline
[Pipeline] stage
[Pipeline] { (compile)
[Pipeline] script
[Pipeline] {
[Pipeline] echo
Compiling the application....
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (build)
[Pipeline] script
[Pipeline] {
[Pipeline] echo
Building the application...
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (test)
[Pipeline] script
[Pipeline] {
[Pipeline] echo
Testing the application...
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (deploy)
[Pipeline] script
[Pipeline] {
[Pipeline] echo
Deploying the application...
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] End of Pipeline
Finished: SUCCESS
```