TASK 2

Name: Thesega P S

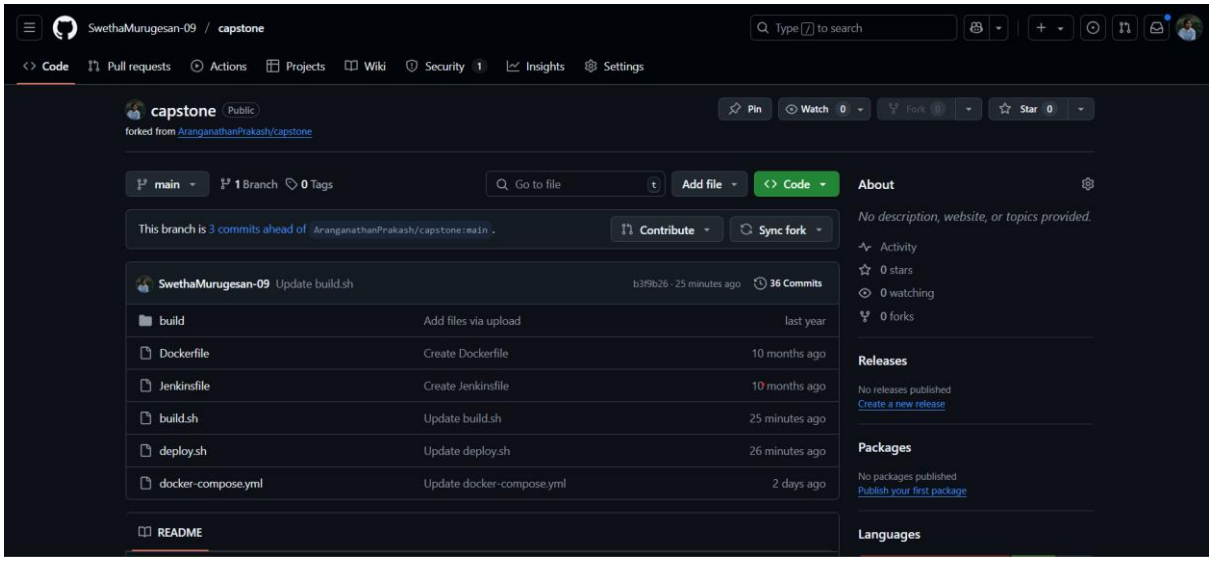
Rollno: 22CSR224

Step 1: Install docker by using the command such as

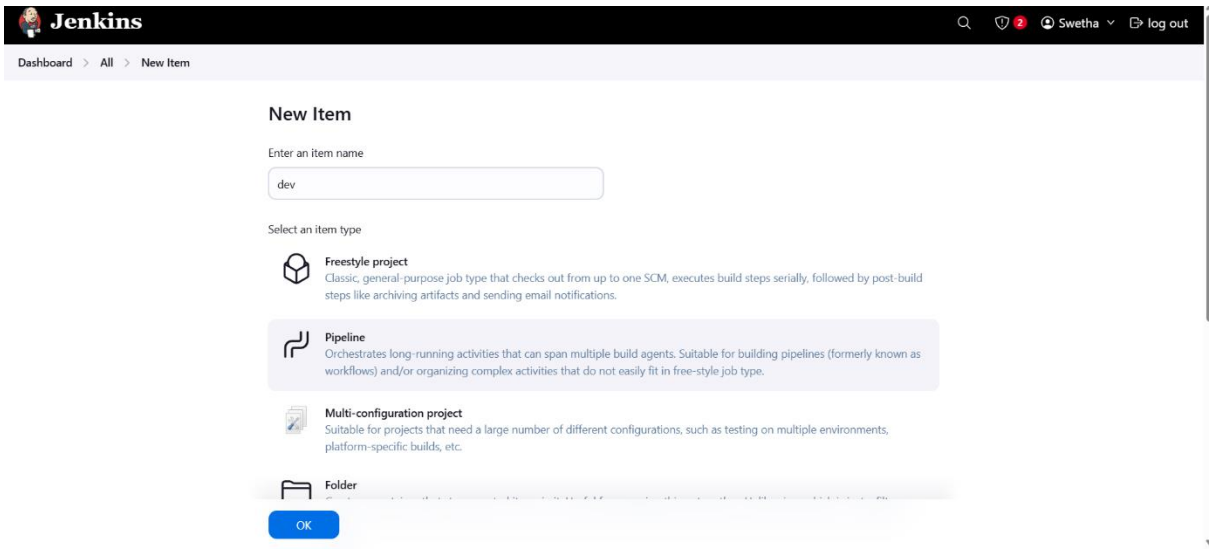
sudo apt-get update

```
root@Swetha:~/dock# sudo apt-get update
Ign:1 https://pkg.jenkins.io/debian binary/ InRelease
Hit:2 https://pkg.jenkins.io/debian binary/ Release
Get:3 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:5 http://archive.ubuntu.com/ubuntu noble InRelease
Get:6 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [671 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [130 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8968 B]
Get:10 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [6936 B]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [820 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:13 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [177 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.0 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [16.9 kB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [208 B]
Get:17 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Ign:18 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages
Ign:19 http://archive.ubuntu.com/ubuntu noble-updates/main Translation-en
Ign:20 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components
Get:21 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [13.5 kB]
Get:22 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1040 kB]
Get:23 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [364 kB]
Get:24 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [25.8 kB]
Get:25 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:26 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:18 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [922 kB]
Get:27 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:28 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [20.0 kB]
Get:29 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:30 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:19 http://archive.ubuntu.com/ubuntu noble-updates/main Translation-en [209 kB]
Get:20 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Fetched 5009 kB in 8s (652 kB/s)
Reading package lists... Done
root@Swetha:~/dock# sudo apt-get update
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Ign:2 https://pkg.jenkins.io/debian binary/ InRelease
Hit:3 https://pkg.jenkins.io/debian binary/ Release
Hit:5 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:6 http://archive.ubuntu.com/ubuntu noble-updates InRelease
```

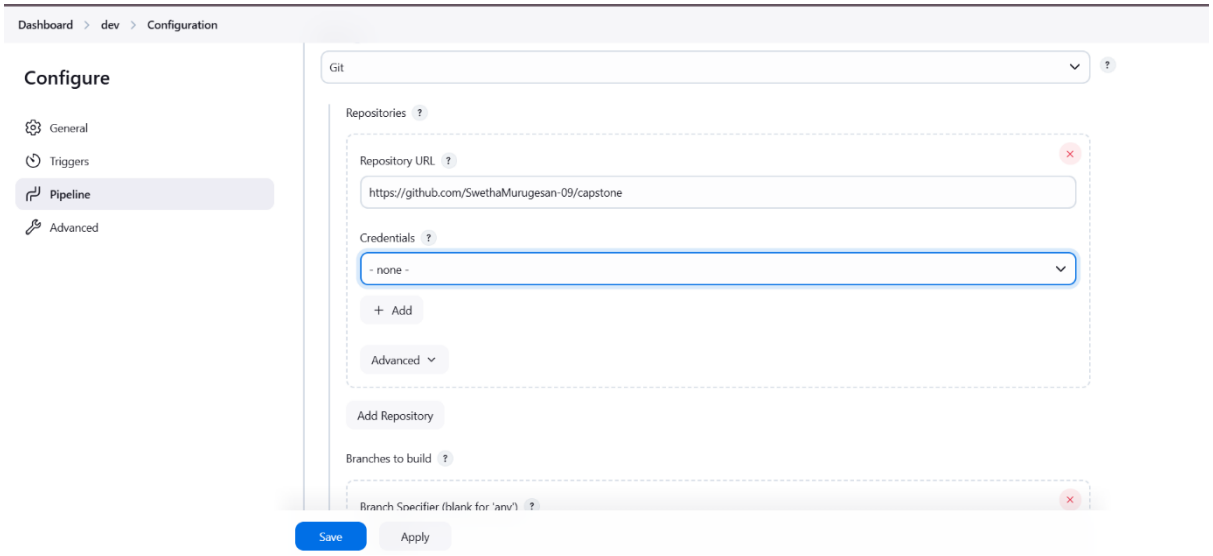
Step 2: Push the code into github

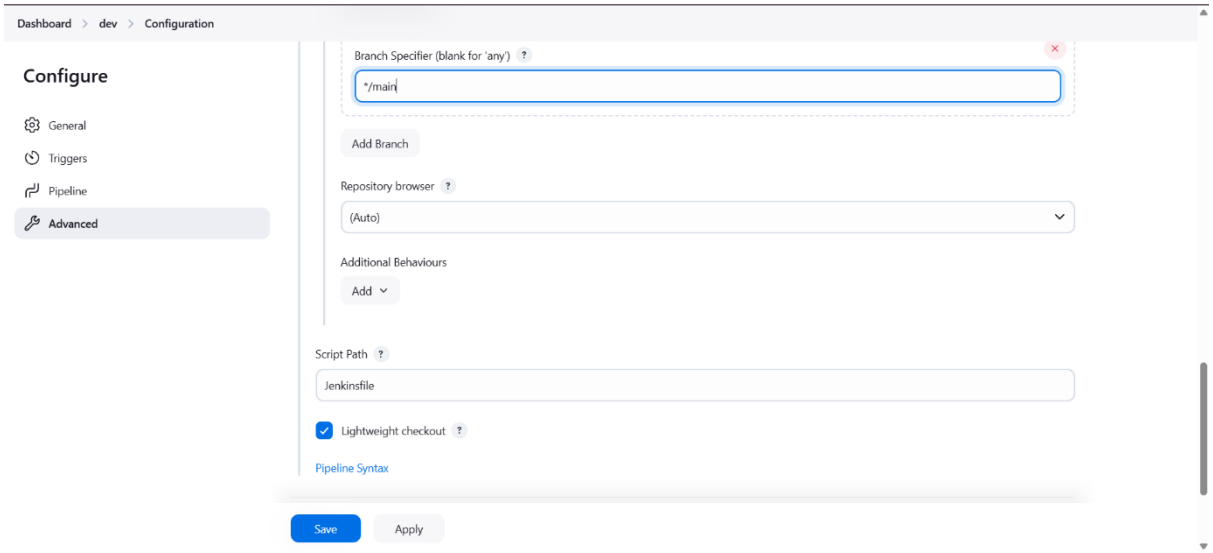


Step 3: Create a new item in Jenkins by giving an item name ad select an item type as pipeline

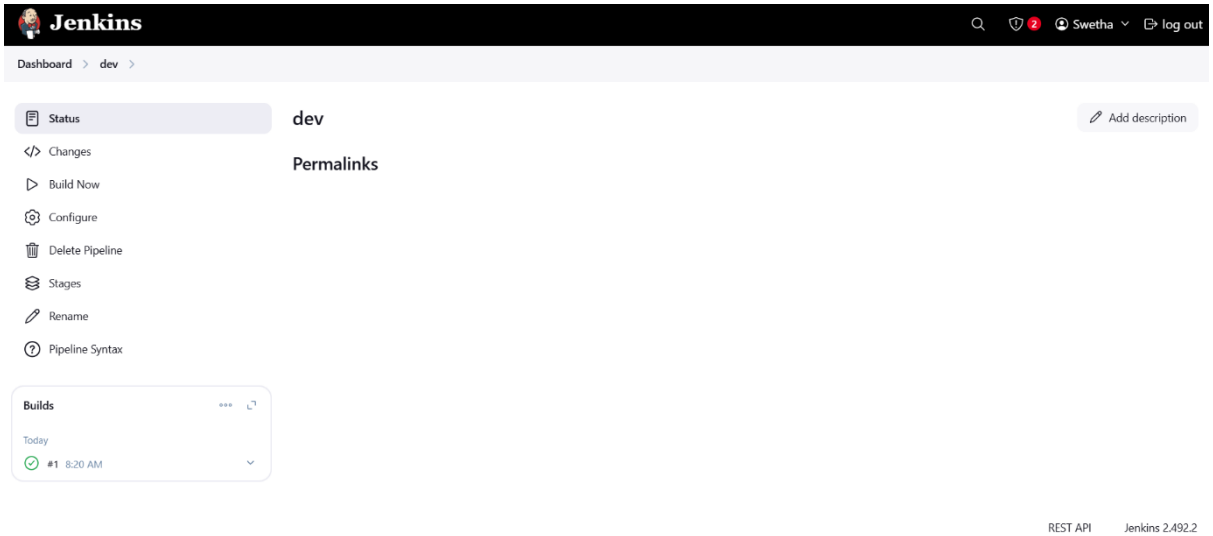


Step 4: Give the repository url and branch name and script path from github

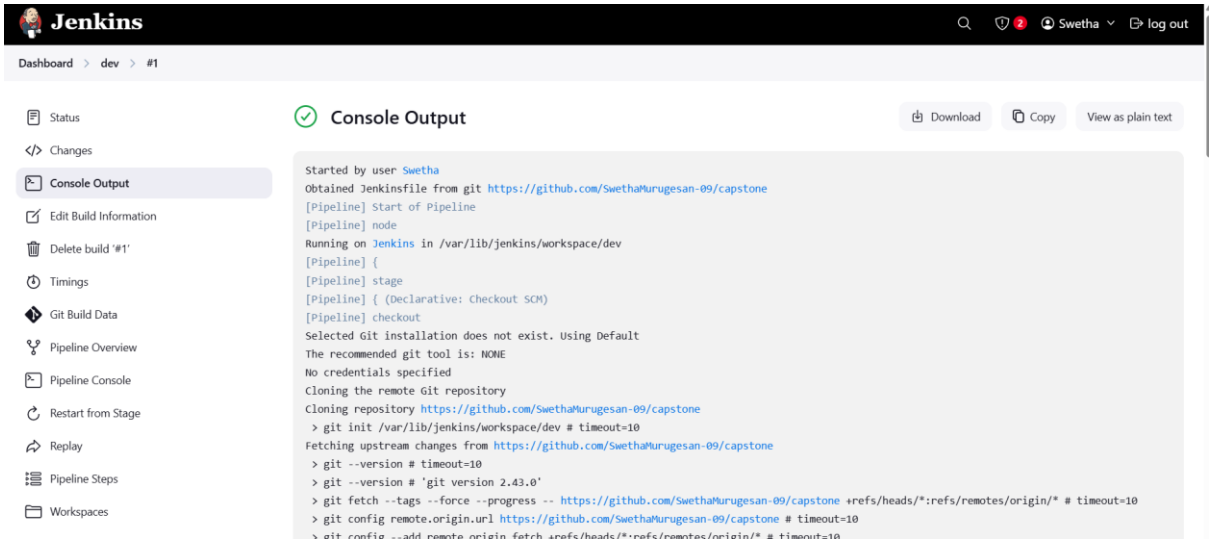




Step 5: Give build now in dashboard , it will build the project



Step 6: Check the console output to verify whether it is builded correctly

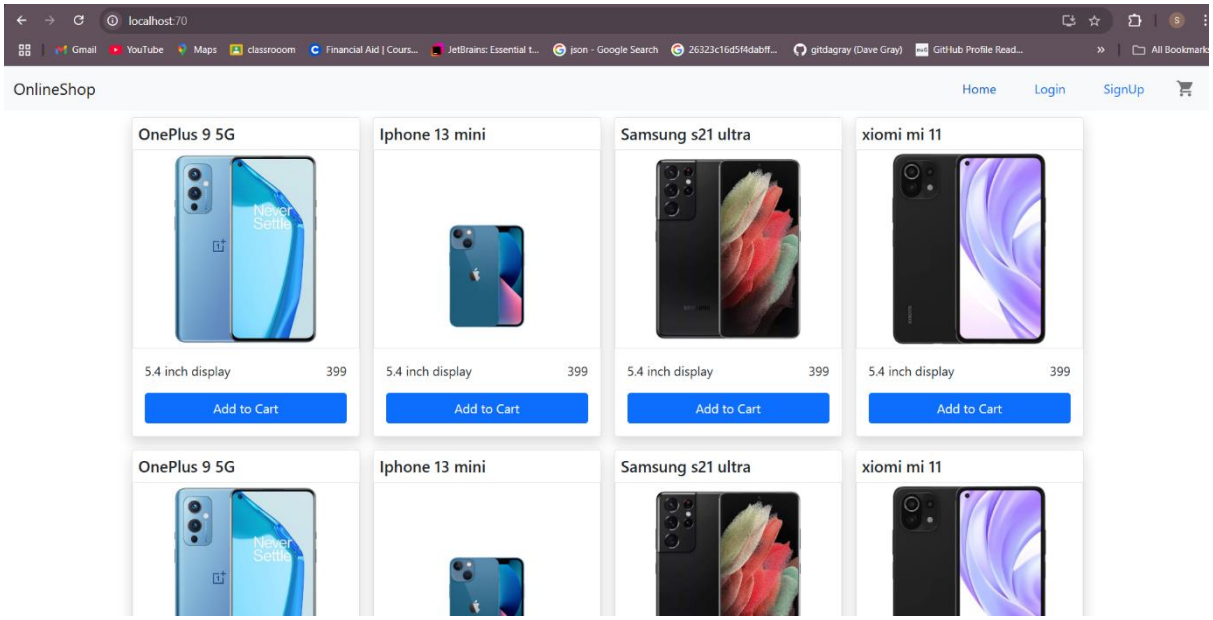


Step 7: Run the command to see the output in localhost

```
root@Swetha:~# sudo apt-get install docker-buildx-plugin
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker-buildx-plugin is already the newest version (0.22.0-1~ubuntu.24.04~noble).
0 upgraded, 0 newly installed, 0 to remove and 131 not upgraded.
root@Swetha:~#
```

```
root@Swetha:~# docker images
REPOSITORY                  TAG       IMAGE ID       CREATED          SIZE
swethamurugesan/devopsgit   latest    8549df71284f   30 minutes ago   195MB
test1                       latest    8549df71284f   30 minutes ago   195MB
test                        latest    69a3483fcf3b   4 hours ago      192MB
swethamurugesan/index.dev   latest    69a3483fcf3b   4 hours ago      192MB
swethamurugesan/nginx       latest    53a18edff809   6 weeks ago      192MB
nginx                       latest    53a18edff809   6 weeks ago      192MB
swethamurugesan/devops.dev  latest    53a18edff809   6 weeks ago      192MB
root@Swetha:~# docker run -itd -p 70:80 test1
064b78012d78d92bb348debb3983f19c03518c00b710d7934ca1d7bb32878204
root@Swetha:~#
```

Output:


localhost:70
OnlineShop
Home
Login
SignUp
OnePlus 9 5G
5.4 inch display
399
Add to Cart
Iphone 13 mini
5.4 inch display
399
Add to Cart
Samsung s21 ultra
5.4 inch display
399
Add to Cart
xiomi mi 11
5.4 inch display
399
Add to Cart
OnePlus 9 5G
Iphone 13 mini
Samsung s21 ultra
xiomi mi 11