

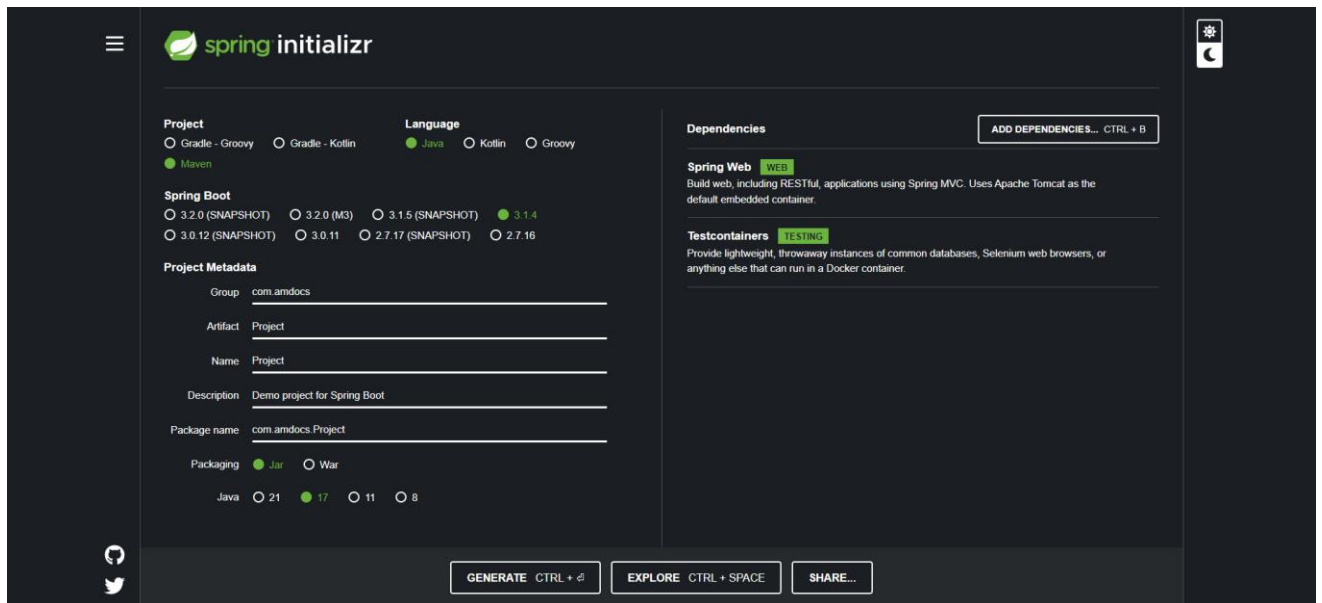
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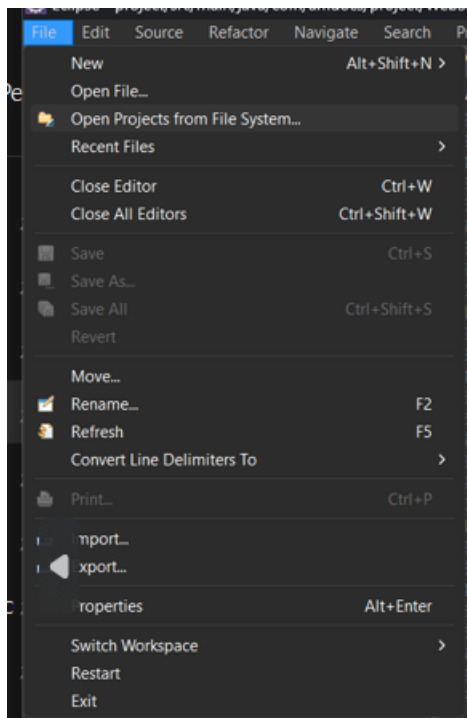
**Project Topic: Automation of Khadi Naturals Website using Selenium and
creating a Docker image**

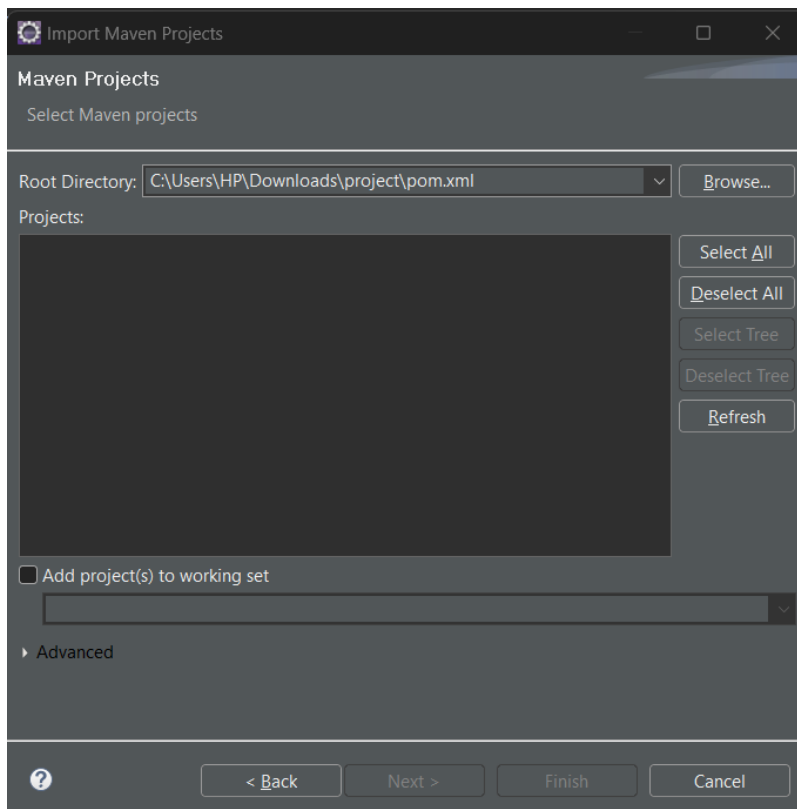
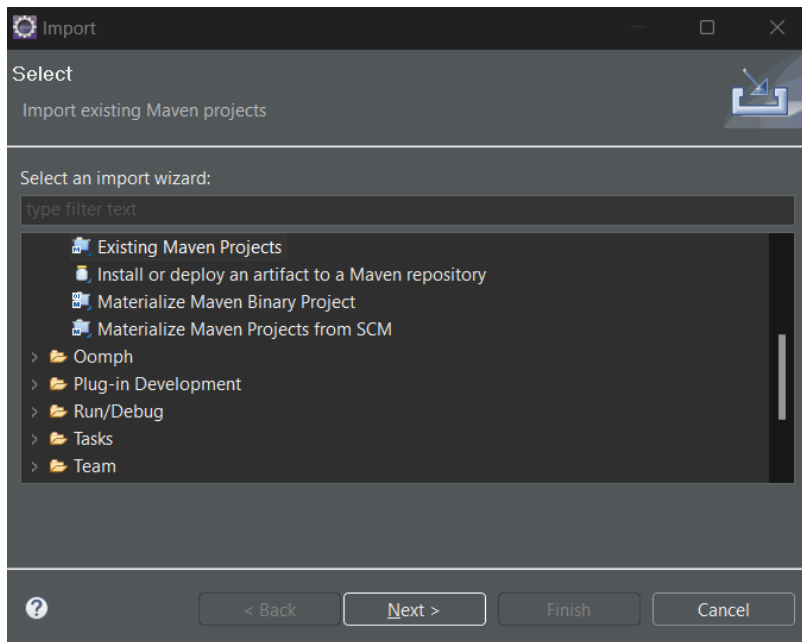
1. Selenium Project

Create a spring project and generate a zip file and extract into the folder.



Import the extracted zip file.





Add dependency in pom.xml:

```
<!-- https://mvnrepository.com/artifact/org.testng/testng -->  
<dependency>  
  <groupId>org.testng</groupId>  
  <artifactId>testng</artifactId>
```

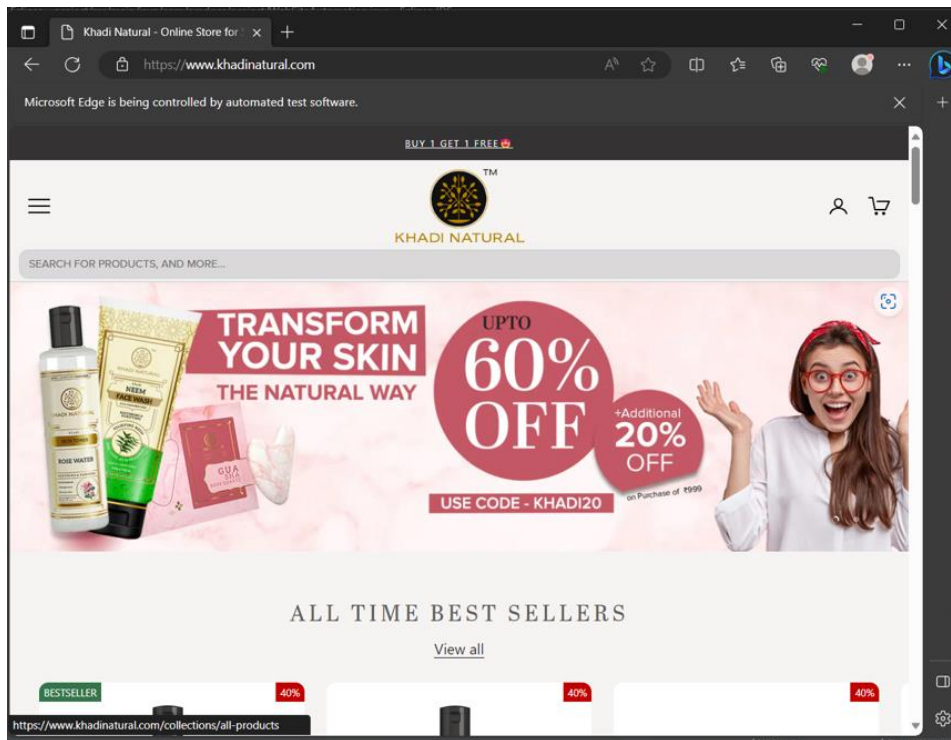
```
<version>7.8.0</version>
<scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-java</artifactId>
  <version>4.12.0</version>
</dependency>

<!-- https://mvnrepository.com/artifact/io.github.bonigarcia/webdrivermanager ->
<dependency>
  <groupId>io.github.bonigarcia</groupId>
  <artifactId>webdrivermanager</artifactId>
  <version>5.5.3</version>
</dependency>
```

Code:

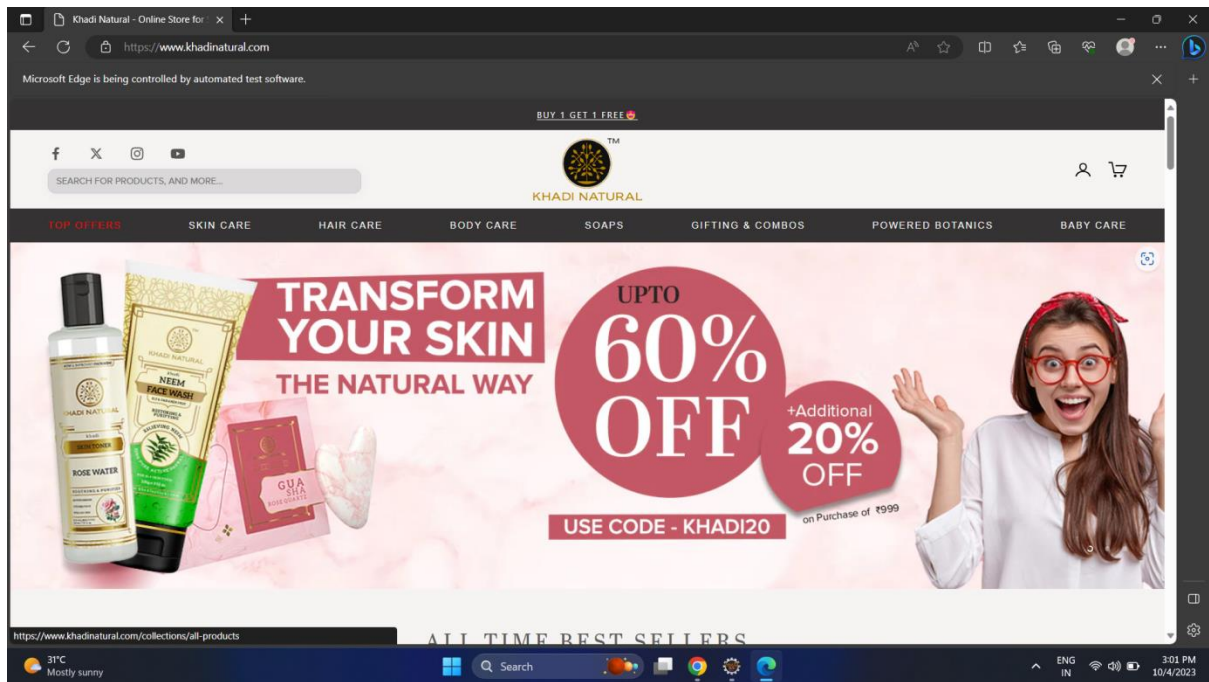
```
dr=new EdgeDriver();

    //load the website
    dr.get("https://www.khadinatural.com/");
    //maximize the window
```



```
dr.manage().window().maximize();
```

```
//Thread.sleep()-refers to the wait of action for the specified time  
Thread.sleep(4000);
```



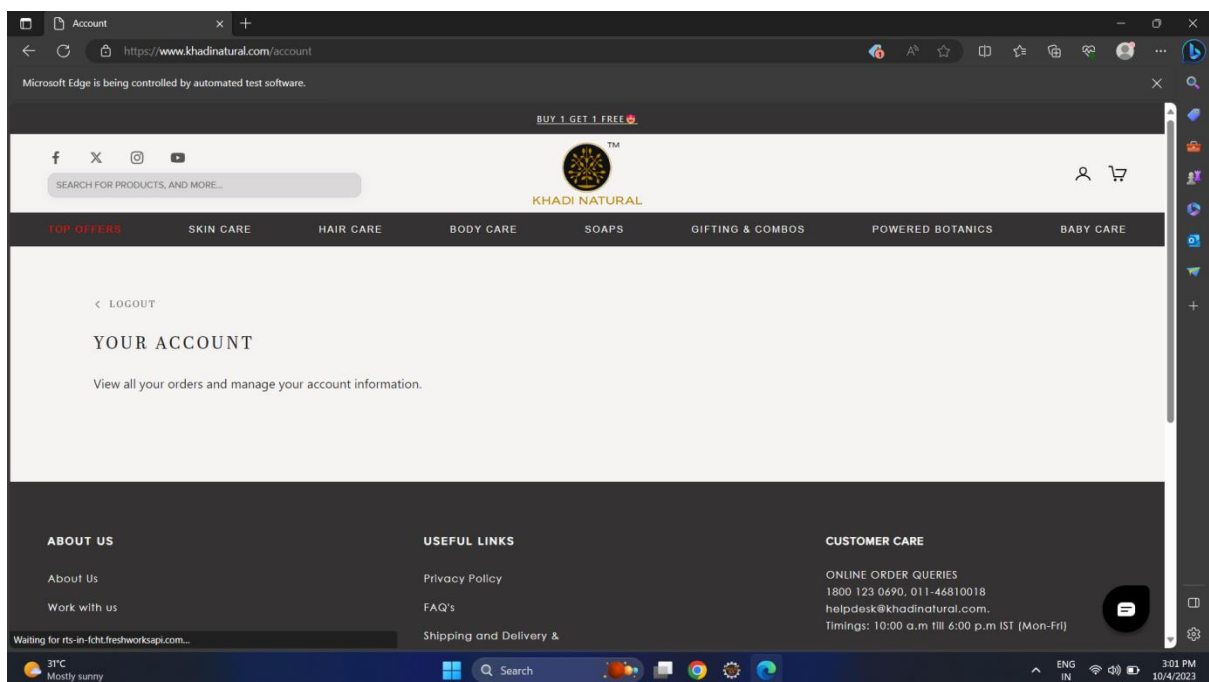
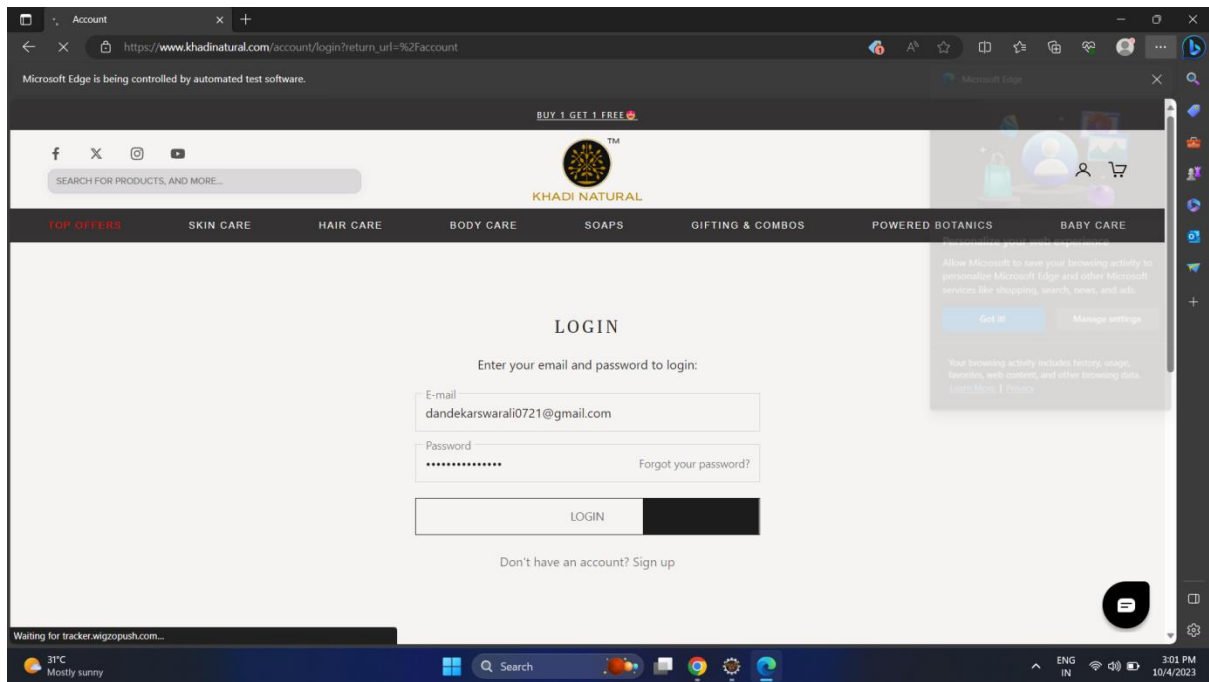
//login into the account

```

WebElement login=dr.findElement(By.xpath("//*[@id=\"shopify-
section-sections--20758378807618__header\"]/height-observer/x-
header/nav[2]/a[1]"));
login.click();
Thread.sleep(5000);
WebElement mail=dr.findElement(By.xpath("//*[@id=\"input-
template--20758378119490__main--customeremail\"]"));
mail.sendKeys("dandekarswarali0721@gmail.com");
WebElement pass=dr.findElement(By.xpath("//*[@id=\"input-
template--20758378119490__main--customerpassword\"]"));
pass.sendKeys("Khadinatural@07");

dr.findElement(By.xpath("//*[@id=\"customer_login\"]/button")).click();
Thread.sleep(3000);

```

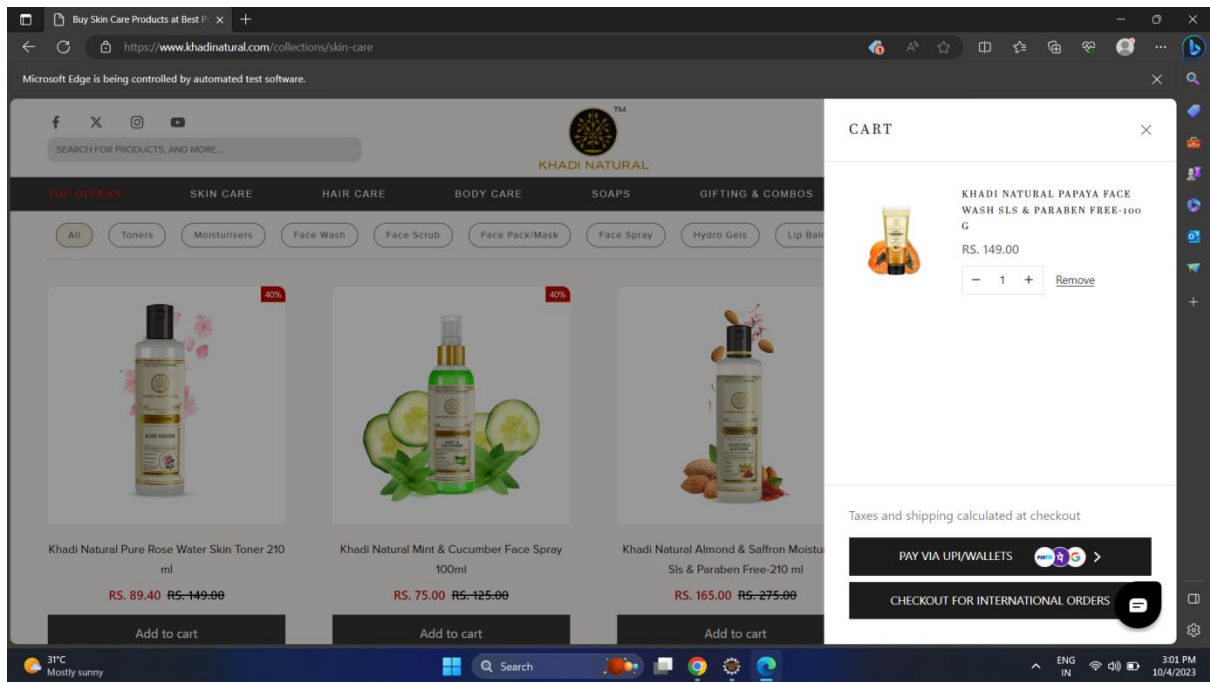
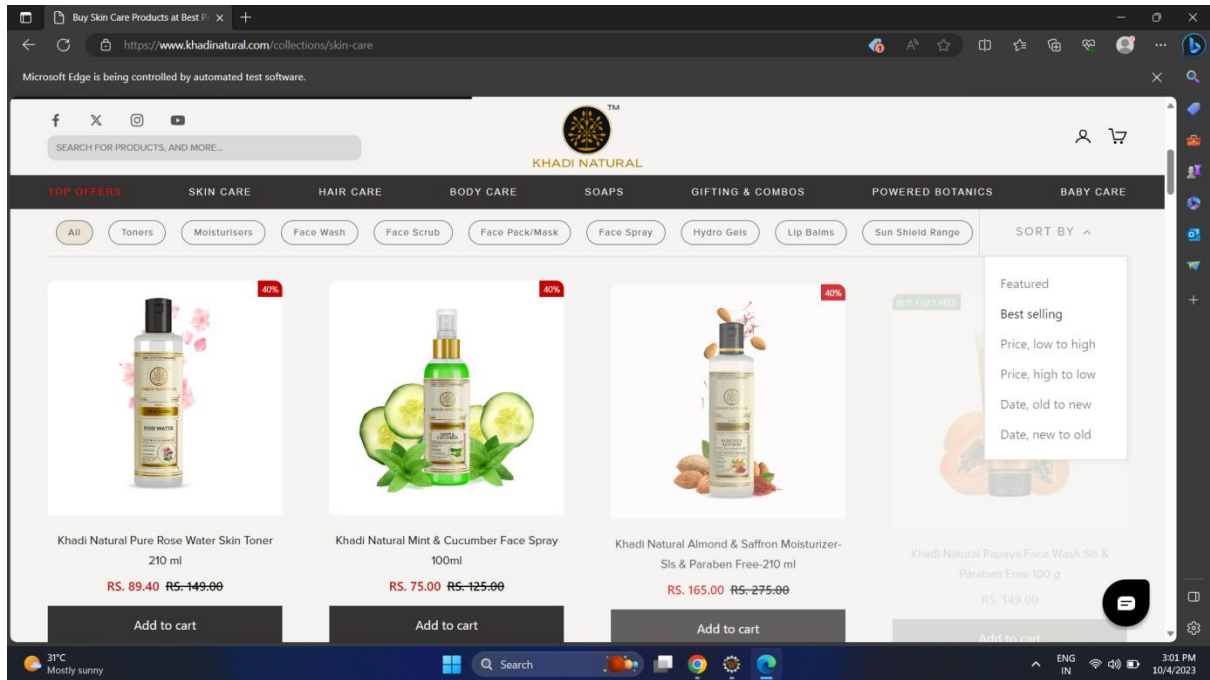


```
//navigation to skincare and adding product to cart
dr.navigate().to("https://www.khadinatural.com/collections/skin-
care");

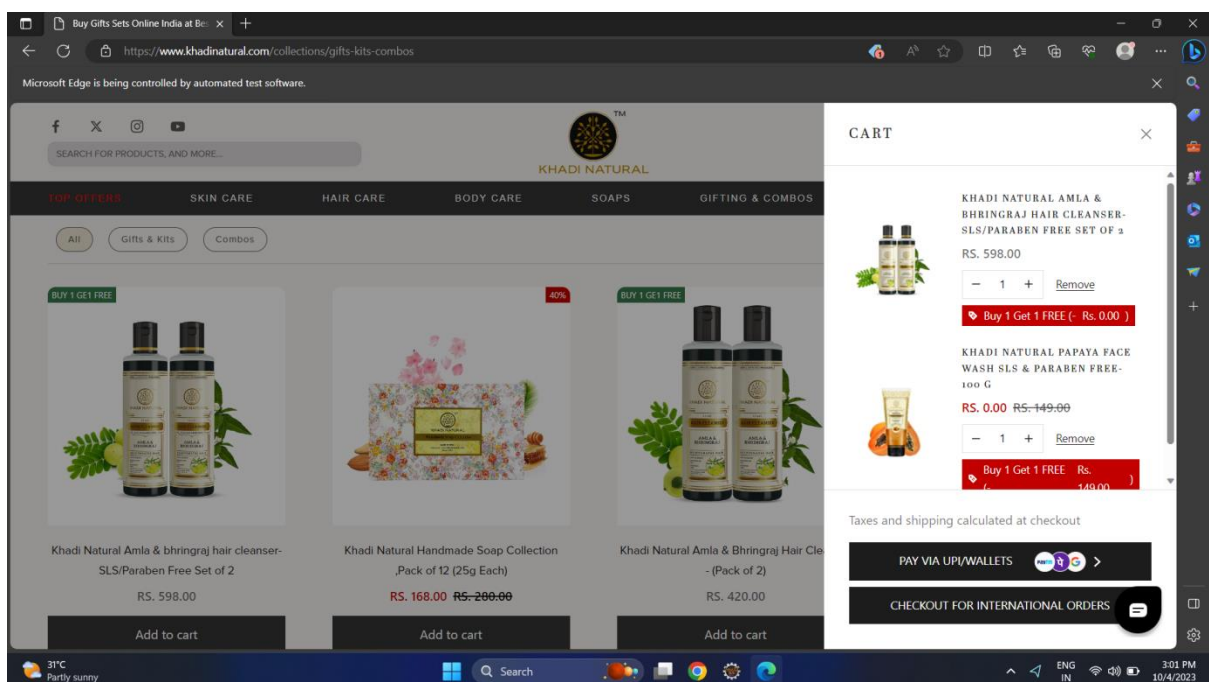
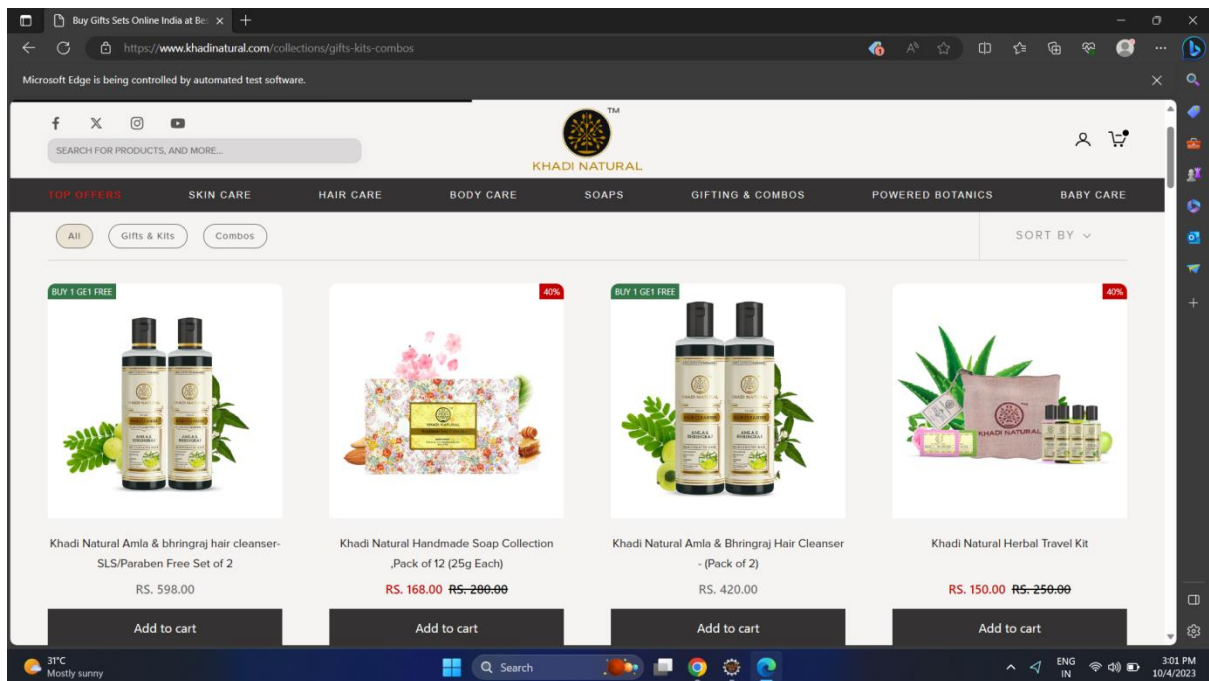
dr.findElement(By.xpath("//*[@id=\"shopify-section-template--
20758376841538__main\"]/div/div/height-observer/div/div[1]/button")).click();

dr.findElement(By.xpath("//*[@id=\"product_form_6722639953971\"]/b
utton")).click();
```

Thread.sleep(3000);

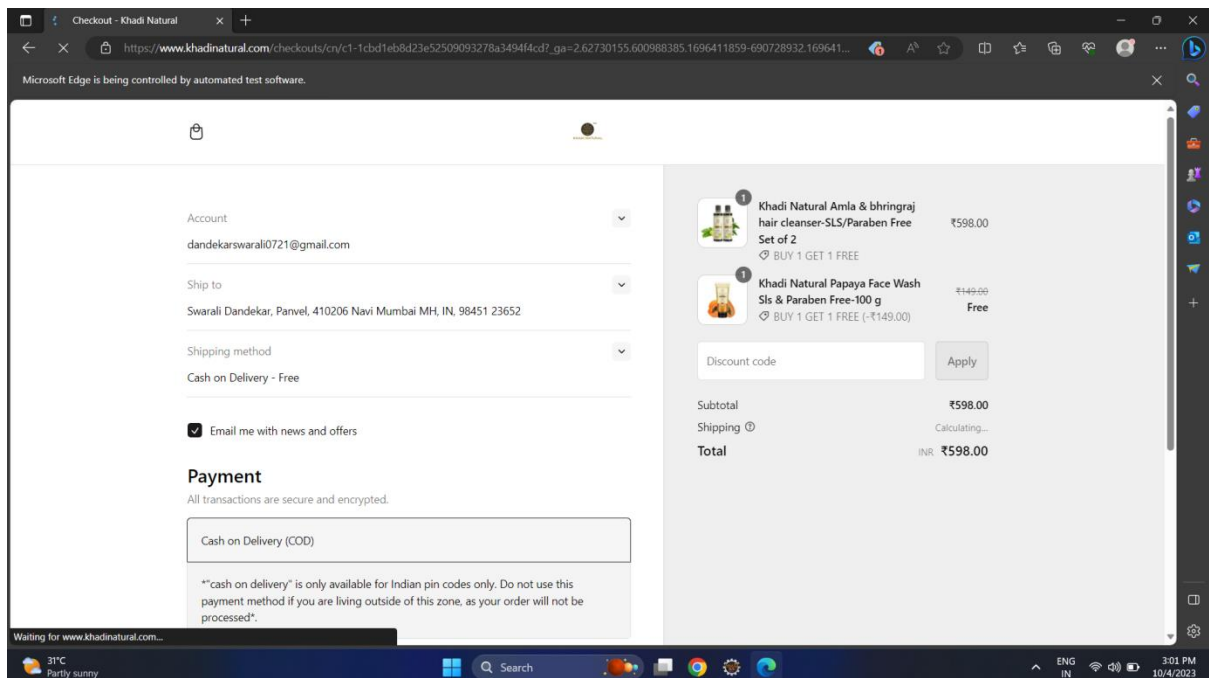



```
//navigating to gifts/combos and adding product to cart
dr.navigate().to("https://www.khadinatural.com/collections/gifts-
kits-combos");
dr.findElement(By.cssSelector("#product_form_6722591260723 >
button")).click();
Thread.sleep(3000);
dr.findElement(By.xpath("//*[@id=\"cart-
drawer\"]/form/div[2]/button[2]")).click();
Thread.sleep(3000);
```

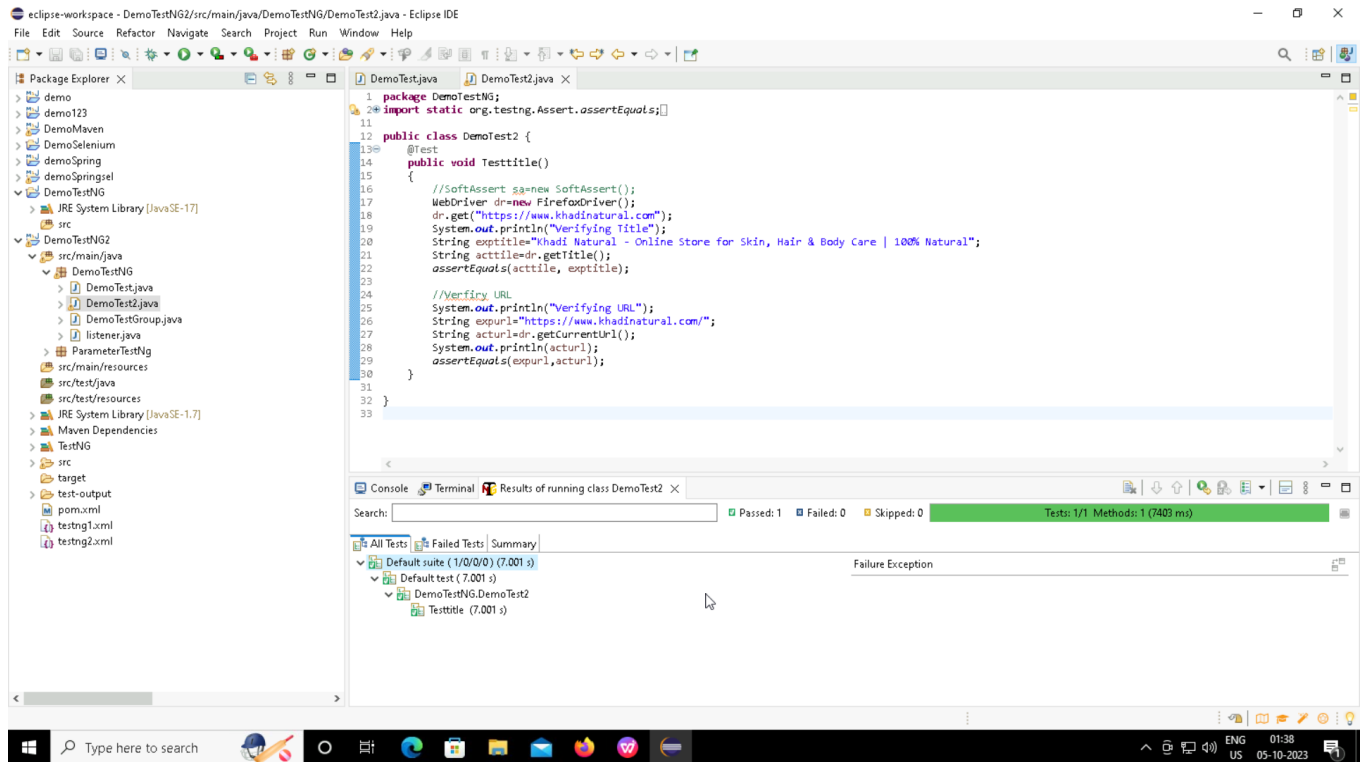


```
//procedure to add address for shipping-(once added it gets saved no need to add
again)

//      dr.findElement(By.xpath("//*[@id=\"shipping-
address1\"]")).sendKeys("Panvel");
//
//      dr.findElement(By.xpath("//*[@id=\"TextField3\"]")).sendKeys("Navi
Mumbai");
//      Select s=new
Select(dr.findElement(By.xpath("//*[@id=\"Select1\"]")));
//      s.selectByVisibleText("Maharashtra");
//
//      dr.findElement(By.xpath("//*[@id=\"TextField4\"]")).sendKeys("410206
");
//
//      dr.findElement(By.xpath("//*[@id=\"TextField5\"]")).sendKeys("984512
3652");
//      //dr.findElement(By.xpath("//*[@id=\"pay-button-
container\"]/div/div/button")).click();
```



Code for testing:



2. Docker Project:

Create a simple spring boot project ; run it and create a docker container and image of the same.

```
package com.example.demo;

import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;

@RestController
public class DockerProject {
    @GetMapping("/get")
    public String show1()
    {
        return "Docker-Docker is an open platform for developing,
shipping, and running applications.";
    }
    @GetMapping("/in")
    public String show2()
    {
        return "This is a Docker Project which show how to dockerize a
simple spring boot project.";
    }
}
```

```
FROM openjdk:17
EXPOSE 8085
ADD target/jarfile.jar jarfile.jar
ENTRYPOINT ["java","-jar","/jarfile.jar"]
```

```
C:\Users\HP\Downloads\demo>docker build -t jarfile:latest .
[+] Building 72.0s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 146B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/openjdk:17
=> [auth] library/openjdk:pull token for registry-1.docker.io
=> [internal] load build context
=> => transferring context: 44.08MB
=> [1/2] FROM docker.io/library/openjdk:17@sha256:528707081fdb9562eb819128a9f85ae7fe000e2fbaeaf9f87662e7b3f38cb7d8
=> => resolve docker.io/library/openjdk:17@sha256:528707081fdb9562eb819128a9f85ae7fe000e2fbaeaf9f87662e7b3f38cb7d8
=> => sha256:528707081fdb9562eb819128a9f85ae7fe000e2fbaeaf9f87662e7b3f38cb7d8 1.04kB / 1.04kB
=> => sha256:98f0304b3a3b7c12ce641177a99d1f3be56f532473a528fda38d53d519cafb13 954B / 954B
=> => sha256:5e28ba2b4cd3a7c3bd0ee2e635a5f6481682b77eabf8b51a17ea8bfelc05697 4.45kB / 4.45kB
=> => sha256:38a980f2cc8accf69c23deae6743d42a87eb34a54f02396f3fcfd7c2d06e2c5b 42.11MB / 42.11MB
=> => sha256:de849f1cfbe60b1c06a1db83a3129ab0ea397c4852b98e3e4300b12ee57ba111 13.53MB / 13.53MB
=> => sha256:a7203ca35e75e068651c9907d659adc721dba823441b78639fde66fc988f042f 187.53MB / 187.53MB
=> => extracting sha256:38a980f2cc8accf69c23deae6743d42a87eb34a54f02396f3fcfd7c2d06e2c5b 1.8s
=> => extracting sha256:de849f1cfbe60b1c06a1db83a3129ab0ea397c4852b98e3e4300b12ee57ba111 0.6s
=> => extracting sha256:a7203ca35e75e068651c9907d659adc721dba823441b78639fde66fc988f042f 4.0s
=> [2/2] ADD target/jarfile.jar jarfile.jar
=> exporting to image
=> => exporting layers
=> => writing image sha256:aaaf013bb63defb4bf4656f55aca2a7f867a205c0e361d14c51bad75db859abc
=> => naming to docker.io/library/jarfile:latest
C:\Users\HP\Downloads\demo>
```

```
C:\Users\HP\Downloads\demo>docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
jarfile	latest	aaaf013bb63d	12 minutes ago	516MB
swa0709/jarfile	latest	aaaf013bb63d	12 minutes ago	516MB

```
C:\Users\HP\Downloads\demo>docker run -p 8085:8085 jarfile
```



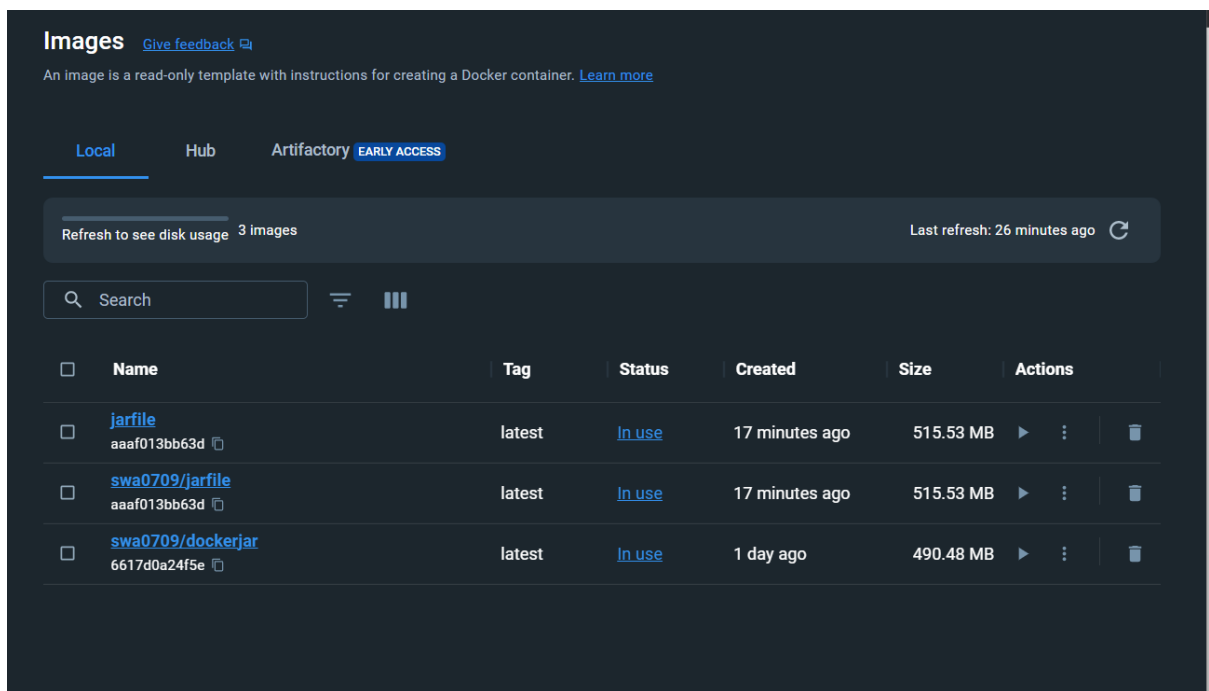
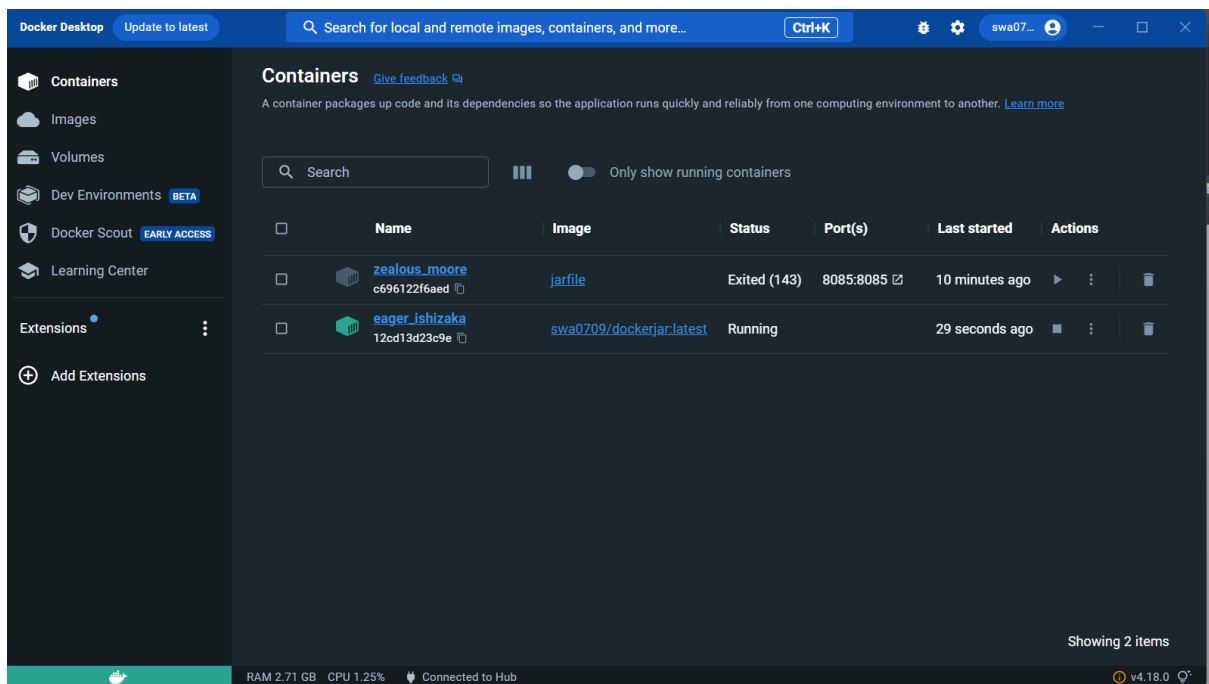
```

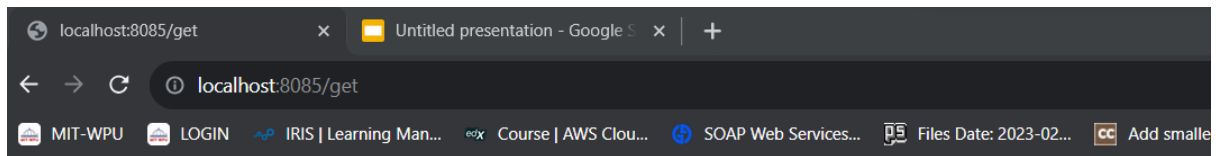
:: Spring Boot ::
(v3.1.4)

2023-10-04T18:33:56.834Z INFO 1 --- [main] com.example.demo.DemoApplication : Starting DemoApplication v0.0.1-SNAPSHOT using Java
17.0.2 with PID 1 (/jarfile.jar started by root in /)
2023-10-04T18:33:56.851Z INFO 1 --- [main] com.example.demo.DemoApplication : No active profile set, falling back to 1 default pro
file: "default"
2023-10-04T18:33:59.487Z INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8085 (http)
2023-10-04T18:33:59.511Z INFO 1 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-10-04T18:33:59.511Z INFO 1 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.13]
2023-10-04T18:33:59.769Z INFO 1 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-10-04T18:33:59.776Z INFO 1 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed
in 2539 ms
2023-10-04T18:34:00.948Z INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8085 (http) with context
path ''
2023-10-04T18:34:00.988Z INFO 1 --- [main] com.example.demo.DemoApplication : Started DemoApplication in 5.378 seconds (process ru
nning for 7.014)
```

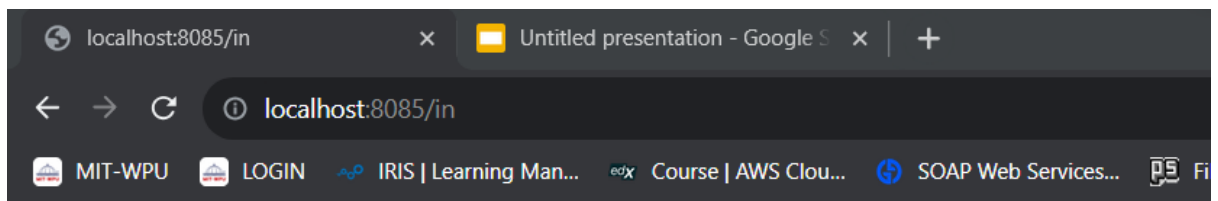
```
C:\Users\HP\Downloads\demo>docker push swa0709/jarfile
Using default tag: latest
The push refers to repository [docker.io/swa0709/jarfile]
74e4f0a4dlb8: Pushed
dc9fa3d8b576: Mounted from library/openjdk
27ee19dc88f2: Mounted from library/openjdk
c8dd97366670: Preparing
unauthorized: incorrect username or password

C:\Users\HP\Downloads\demo>docker run -p 8085:8085 jarfile
```





Docker-Docker is an open platform for developing, shipping, and running applications.



This is a Docker Project which show how to dockerize a simple spring boot project.