```java
1 package testng.features;
2
3 import static org.testng.Assert.assertEquals;
4 import org.openqa.selenium.By;
5 import org.openqa.selenium.WebDriver;
6 import org.testng.Assert;
7 import org.testng.annotations.AfterMethod;
8 import org.testng.annotations.BeforeMethod;
9 import org.testng.annotations.Parameters;
10 import org.testng.annotations.Test;
11 import io.github.bonigarcia.wdm.WebDriverManager;
12
13 public class TestNGParameterizationDemo {
14
15     WebDriver driver;
16
17     @BeforeMethod
18     @Parameters("browser")
19     public void parameterizedTest(String browser) {
20         if (browser.equalsIgnoreCase("firefox")) {
21
22             driver = WebDriverManager.firefoxdriver().create();
23             System.out.println("Browser Started :" + browser);
24
25         } else if (browser.equalsIgnoreCase("chrome")) {
26
27             driver = WebDriverManager.chromedriver().create();
28             System.out.println("Browser Started :" + browser);
29         }
30
31         driver.get("https://www.saucedemo.com/");
32         driver.manage().window().maximize();
33     }
34
35     @Test
36     public void validCredentials() {
37
38         driver.findElement(By.name("user-name")).sendKeys("standard_user");
39         driver.findElement(By.name("password")).sendKeys("secret_sauce");
40         driver.findElement(By.xpath("//*[@name='login-button']")).submit();
41
42         String newPageText = driver.findElement(By.xpath("//*[@class ='title']")).getText();
43         System.out.println("newPageText :" + newPageText);
44         Assert.assertEquals(newPageText, "Products");
45     }
46
47     @Test
48     public void invalidCredentials() {
49
50         driver.findElement(By.name("user-name")).sendKeys("1234");
51         driver.findElement(By.name("password")).sendKeys("secret_sauce");
52         driver.findElement(By.xpath("//*[@name='login-button']")).submit();
53         String actualErrorMessage = driver.findElement(By.xpath("//*
   [@id='login_button_container']/div/form/div[3]/h3")).getText();
54         System.out.println("Actual ErrorMessage :" + actualErrorMessage);
55         assertEquals(actualErrorMessage, "Epic sadface: Username and password do not match
   any user in this service");
56
57     }
58
59     @AfterMethod
```

```
60      public void closeBrowser() {
61          driver.quit();
62      }
63
64 }
65
```