**How to use HashMap in Selenium WebDriver**

In this article, I discussed how to create hash map in Java for data driven tests and read the data from the HasMap object. Please go through below example.

**1) HashMap in Java**  
  
**Example:**  
  
public class HashMapExample {  
  
 public static void main(String[] args) {  
  
 HashMap hm = new HashMap();  
  
 // Adding pairs to HashMap  
 hm.put(101, "John");  
 hm.put(102, "Scott");  
 hm.put(103, "David");  
  
 // Printing pairs from HashMap  
 System.out.println(hm);  
  
 // Remove a pair from HashMap by using key  
 hm.remove(102);  
  
 System.out.println(hm);  
  
 // Retrive a single pair from HashMap using key value  
 System.out.println(hm.get(103));  
  
 // Reading Keys and values from HashMap  
 for (Map.Entry m : hm.entrySet()) {  
  
 System.out.println((m.getKey() + "  " + m.getValue()));  
 }  
  
 }  
  
}  
  
**Output:**  
  
{101=John, 102=Scott, 103=David}  
{101=John, 103=David}  
David  
101  John  
103  David

**2) How to use HashMap in Selenium WebDriver Test case**

**Example:**  
  
import java.util.HashMap;  
import org.openqa.selenium.By;  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.chrome.ChromeDriver;  
  
public class LoginTestHM {  
  
 // method return HashMap object with data pairs  
 static HashMap logindata() {  
 HashMap hm = new HashMap();  
 hm.put("x", "mercury@mercury");  
 hm.put("y", "mercury1@mercury1");  
 hm.put("z", "mercury2@mercury2");  
  
 return hm;  
 }  
  
 public static void main(String[] args) throws Exception {  
  
 System.setProperty("webdriver.chrome.driver", "C://Drivers/chromedriver\_win32/chromedriver.exe");  
 WebDriver driver = new ChromeDriver();  
  
 driver.get("http://newtours.demoaut.com/");  
  
 // Login as X  
 String credentials = logindata().get("x"); // Retriving value 'x' from  
 // HashMap  
  
 // Login as y  
 // String credentials = logindata().get("y");  
  
 // Login as z  
 // String credentials = logindata().get("x");  
  
 String uarr[] = credentials.split("@"); // separting value of 'x' int o  
 // 2 parts using delimeter '@'  
  
 driver.findElement(By.name("userName")).sendKeys(uarr[0]); // Passing  
 // value 1  
 // i.e  
 // username  
 // from  
 // array  
 driver.findElement(By.name("password")).sendKeys(uarr[1]); // Passing  
 // value 2  
 // i.e  
 // password  
 // from  
 // array  
 driver.findElement(By.name("login")).click();  
  
 // Validation  
 if (driver.getTitle().equals("Find a Flight: Mercury Tours:")) {  
 System.out.println("Test Passed");  
  
 } else {  
 System.out.println("Test failed");  
  
 }  
  
 driver.findElement(By.linkText("Home")).click();  
 }  
  
}