//How you can take the screenshot in automation
**Screenshot**
- We need to typecast driver object (reference variable) to TakesScreenshot interface
- Then call getScreenshotAs() method
- Pass the argument OutputType.FILE
- This will return object of type file
- Store the screenshot in local memory
- Use fileHandler to copy the file, which take two parameter source and dest Or
- Use file.utils.copyfile(src,dest)

- We need to type cast driver object to take screenshot interface
Ex. ((TakesScreenshot)driver)
- Then call method getScreenshotAs() and pass the argument "OutputType.FILE"
This method will return object of type file
- File source = ((TakesScreenshot)driver). getScreenshotAs(OutputType.FILE)
Above statement will take screenshot but image will be available inside local memory
- To store screen shot in local drive, we need to call a method i.e. copy file() which is present inside fileutils class or fileHandler class
- This method will accept two parameter i.e. source and destination
- Ex. file.utils.copyfile(src,new File ("")); OR FileHandler.copy(source, dest);

**Program:**
package AdvSel;

import java.io.File;
import java.io.IOException;

import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.io.FileHandler;

public class Screenshot {

        public static void main(String[] args) throws Exception {
                System.setProperty("webdriver.chrome.driver", "chromedriver");
                WebDriver driver = new ChromeDriver();
                driver.manage().window().maximize();
                driver.get("https://is.rediff.com/signup/register");

                File source =
((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);
//              System.out.println(source);

                File dest = new File("/Users/Zenith/eclipse-
workspace/JavaProgarm17Sep/ScreenShot/photo.jpeg");
                FileHandler.copy(source, dest);

```
                driver.close();
        }

}
```

## Parameterization

Fetching data from external source and using it in selenium test case script is known as parameterization. This can be achieve by using excel sheet, csv file and test NG data provider

Fetching of data from excel sheet

- Configure apache poi jar file in project
- Create excel file with sample data
- Create object of FileInputStream class with excel sheet path as input
- Open excel use static method create() which present in WorkBookFactory class
- Open the excel sheet by getsheet method
- To identify row use getrow() method
- To identify column use getcell() method
- To fetch string information use getStringCellValue() method OR getNumericCellValue() for numeric

What is parametrization??????????????????
How to read excel file? ??????????????????
How you provide the test data in script? ??????????????????

**Program:**

```java
package AdvSel;

import java.io.FileInputStream;

import org.apache.poi.ss.usermodel.Sheet;
import org.apache.poi.ss.usermodel.WorkbookFactory;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class ReadExcelFile {

        public static void main(String[] args) throws Exception {
                System.setProperty("webdriver.chrome.driver", "chromedriver");
                WebDriver driver = new ChromeDriver();
                driver.manage().window().maximize();
                driver.get("https://is.rediff.com/signup/register");

                WebElement fullnameTextbox =
driver.findElement(By.xpath("//input[@id='fullname']"));
                WebElement emailIdTextbox =
driver.findElement(By.xpath("//input[@id='emailid']"));
                WebElement passwordTextbox =
driver.findElement(By.xpath("//input[@id='pass']"));
```

```java
			WebElement retypePassTextbox =
driver.findElement(By.xpath("//input[@id='repass']"));

//			fullnameTextbox.sendKeys("Harry");
//			emailIdTextbox.sendKeys("harry@gmail.com");
//			passwordTextbox.sendKeys("Pass@1234");
//			retypePassTextbox.sendKeys("Pass@1234");

			FileInputStream file = new FileInputStream("/Users/Zenith/eclipse-
workspace/JavaProgarm17Sep/TestData/RediffData.xlsx");
			Sheet excel = WorkbookFactory.create(file).getSheet("Sheet1");
			String value1 = excel.getRow(0).getCell(0).getStringCellValue();

//			System.out.println(value1);


	fullnameTextbox.sendKeys(excel.getRow(0).getCell(0).getStringCellValue());

	emailIdTextbox.sendKeys(excel.getRow(0).getCell(1).getStringCellValue());

			Thread.sleep(5000);
			driver.close();

		}

}
```