Page Object Factory:

Page Object Factory provides an annotation @FindBy which makes identification of web elements much easier.

To use this annotation first we need to initialize the page object factory using

**PageFactory.*initElements*(driver, this);**

Example:

**package** objectrepository;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.support.FindBy;

**import** org.openqa.selenium.support.PageFactory;

**public** **class** page1ORPF {

WebDriver driver;

**public** page1ORPF(WebDriver driver){

**this**.driver = driver;

PageFactory.*initElements*(driver, **this**);

}

@FindBy(id="firstname")

WebElement firstname;

**public** WebElement firstname() {

**return** firstname;

}

@FindBy(xpath="//input[@color='red']")

WebElement fnwithattr;

**public** WebElement fnwithattr() {

**return** fnwithattr;

}

@FindBy(id="first name")

WebElement fnwithspaces;

**public** WebElement fnwithspaces() {

**return** fnwithspaces;

}

@FindBy(xpath="//input[starts-with(@id,'last')]")

WebElement fnstartwith;

**public** WebElement fnstartwith() {

**return** fnstartwith;

}

@FindBy(css=".text.primary-text")

WebElement fnwithmultclass;

**public** WebElement fnwithmultclass() {

**return** fnwithmultclass;

}

@FindBy(linkText="Page 4")

WebElement page4;

**public** WebElement page4() {

**return** page4;

}

}

Test1.java

**package** testcases;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.firefox.FirefoxDriver;

//import objectrepository.page1OR;

**import** objectrepository.page1ORPF;

**public** **class** test1 {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

System.*setProperty*("webdriver.gecko.driver", "C:\\BrowserDrivers\\geckodriver.exe");

WebDriver driver = **new** FirefoxDriver();

driver.get("file:///D:/Selenium%20Course/Java/pageobjectmodel/popage1.html");

page1ORPF p1 = **new** page1ORPF(driver);

p1.firstname().sendKeys("subbu");

p1.fnwithattr().sendKeys("Ganesh");

p1.fnwithspaces().sendKeys("Ram");

p1.fnstartwith().sendKeys("Naresh");

p1.fnwithmultclass().sendKeys("suresh");

p1.page4().click();

Thread.*sleep*(2000);

driver.close();

}

}