I want to send some input in text box , how can I do that ?  
   
 // To initialize js object  
JavascriptExecutor JS = (JavascriptExecutor)webdriver;  
// To enter username  
JS.executeScript("document.getElementById("id of that webelement").value='what ever value u want to send'");  
// To enter password  
JS.executeScript("document.getElementById('"email\_id"').value='[dhara@gmail.com](mailto:dhara@gmail.com)'");  
  
Difference between Close and Quit   
driver.close(): To close current WebDriver instance  
driver.quit(): To close all the opened WebDriver instances  
  
  
How many different customize x path you have used so far ?  
<https://www.guru99.com/xpath-selenium.html>  
//\*[starts-with(@id,'header')]  
//\*[contains(@id,'header')]  
//\*[contains(text(),'hear')] - to identify element using inner text of the element  
//\*[starts-with(@attrbutename,'attrvalue')]  
//div[@id='navbar-collapse']/ul/li[3]  
.//\*[@class='hidden-xs top-bar']/following::div[1]  
.//\*[@class='header-main container']/preceding::div[2]  
//\*[@class='logo col-md-4 col-sm-4']/following-sibling::div  
Contains   
Starts with   
ends with  
siblings  
  
  
What are the different challenges you face in selenium?  
 - Selenium is an open source tool. So in case to any technical issue there is no direct support if any one is in trouble.  
 - Working with frames and multiple windows are tricky and time consuming.  
 - At times it happen thats few elements take more time to load. So by adding implicit wait , at first it is able run properly but if I run the same again it may fail. So had to add explicit wait for the same.  
 - While running test in multiple browser it is possible that a particulat test will run properly in firefox browser but I may take time to run in IE so firefox is faster than IE. So this can be solved by increasing implicit wait time in IE browse.  
 - Selenium webdriver do not have any inbuilt framework so we have to use Testng for test case execution and assertions, Log4j to generate log, Apache POI API to read data from excel file  
 - Dynamic changing elements i.e ID . In such scenario we generally use contains, starts .mwith or ends with or any locator which is not changing.  
  
   
I have web page and i have 4 different text fields, 2 digit no in every text field, read those nos, put them in ascending order and print it.  
  
int arr[] = driver.findelement ().getvalue()  
int arr[] = driver......  
array.sort (arr[])  
  
  
How to connect database in selenium   
public class jdbc conx(){  
            Class.forName("com.mysql.jdbc.Driver");  
            System.out.println("driver loaded");  
              
        Connection con = DriverManager.getConnection(DataBase\_URL, "UserName" , "Password" );   
        System.out.println("connected to data base/open connection");  
          
        Statement stm = con.createStatement();  
        System.out.println ("creating statement");  
          
        ResultSet rs = stm.executequery("select \* from customers");  
          
        while (rs.next())                                                                                     -------------  rs.next will read column by column/row by row   
       {  
       String firstname = rs.getString("firstname");  
       System.out.println ("firstname");  
       String email id = rs.getString("emailid");  
       }     
     
    ///-----------Clean-up environment  
      rs.close();  
      stm.close();  
      con.close();

How to check time taken to load a particular web element on web page

      WebDriver driver;  
      
    @Test  
    public void waitTime(){  
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\pranav.shah\\git\\automation\\WebDriver\\resources\\chromedriver.exe");  
        driver=new ChromeDriver();  
        driver.get("<https://www.amazon.com/>");  
        driver.findElement(By.id("twotabsearchtextbox")).sendKeys("sydney sheldon books");  
        driver.findElement(By.xpath(".//\*[@id='nav-search']/form/div[2]/div/input")).click();  
        long start = System.currentTimeMillis();  
          
  
        //WebElement str = driver.findElement(By.cssSelector("[data-attribute="Master of the Game"]"));  
          
        WebElement ele =driver.findElement(By.xpath(".//\*[@id='result\_0']/div/div/div/div[2]/div[1]/div[1]/a/h2"));  
        Assert.assertTrue(ele.isDisplayed());   
        long finish = System.currentTimeMillis();  
        long totalTime = finish - start;   
          
        System.out.println("Total Time for element load in milli seconds - "+totalTime);   
      
}  
  
     @Test  
    public void waitTime2(){  
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\pranav.shah\\git\\automation\\WebDriver\\resources\\chromedriver.exe");  
        driver=new ChromeDriver();  
        driver.get("<https://www.amazon.com/>");  
        driver.findElement(By.id("twotabsearchtextbox")).sendKeys("sydney sheldon books");  
        driver.findElement(By.xpath(".//\*[@id='nav-search']/form/div[2]/div/input")).click();  
        StopWatch pageload = new StopWatch();  
        pageload.start();  
          
  
        //WebElement str = driver.findElement(By.cssSelector("[data-attribute="Master of the Game"]"));  
          
        WebElement ele =driver.findElement(By.xpath(".//\*[@id='result\_0']/div/div/div/div[2]/div[1]/div[1]/a/h2"));  
        pageload.stop();  
          
      
        long pageLoadTime\_ms = pageload.getTime();  
        long pageLoadTime\_Seconds = pageLoadTime\_ms / 1000;  
        System.out.println("Total Page Load Time: " + pageLoadTime\_ms + " milliseconds");  
        System.out.println("Total Page Load Time: " + pageLoadTime\_Seconds + " seconds");;   
      
}  
      
}

 