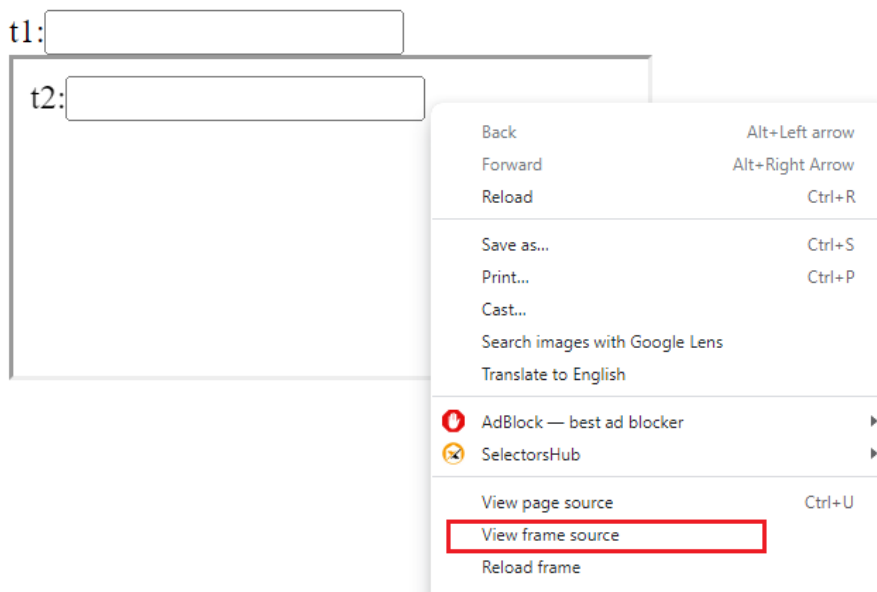
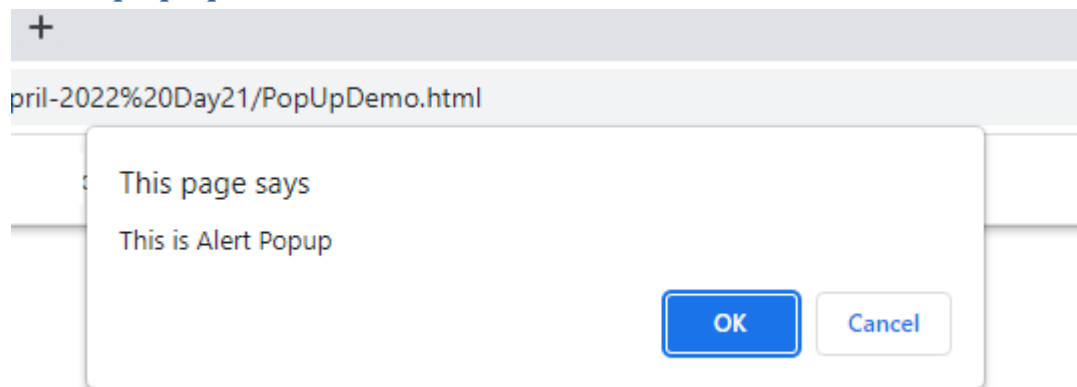


Handling Frames

1. Web page present inside another web page is called as embedded web page
2. Developer uses `<iframe>` or `<frameset>` to create embedded web page
3. To handle element present inside the page we should switch the control into the frame before find the element
4. We switch to frame using → `driver.switchTo().frame(arg1);`
Frame method is overloaded; arg1 can be
 - a. Index of the frame (int)
 - b. Name or id of the frame (String)
 - c. Address of the frame (WebElement)
5. If the index,id,name or address is invalid we get `NoSuchFrameException`
6. To exit from the frame we use
 - a. `driver.switchTo().defaultContent();`
 - b. `driver.switchTo().parentFrame();`
7. `defaultContent` means the main page
8. `parentFrame` mean parent of the current frame
9. when we inspect just outside of the element which is inside the frame we get “view frame source” option



Alert popup



1. Alert popup is also called as java script popup
2. We cant inspect it , we cant move it, its displayed in the middle just below address bar
3. To handle it we use→ `Alert alert = driver.switchTo().alert();`
4. Alert interface has following methods
 - a. `getText()`→ get the message displayed on the alert popup
 - b. `accept()`→ to click on OK
 - c. `dismiss()`→ to click cancel
5. while performing any action on alert popup , if it is not present we get **"NoAlertPresentException"**
6. If we try to perform any action on the page while alert popup is still displayed on the page we get **UnhandledAlertException**
7. To synchronize with alert popup we use explicit wait
`wait.until(ExpectedConditions.alertIsPresent());`

how to verify whether alert popup is displayed or not

```
driver.findElement(By.id("A1")).click();
WebDriverWait wait=new WebDriverWait(driver,Duration.ofSeconds(5));
try {
    wait.until(ExpectedConditions.alertIsPresent());
    Alert alert = driver.switchTo().alert();
    String text = alert.getText();
    System.out.println("Alert popup is present:"+text);
    alert.dismiss();
}
catch (Exception e){
    System.out.println("Alert popup is not present");
}
```