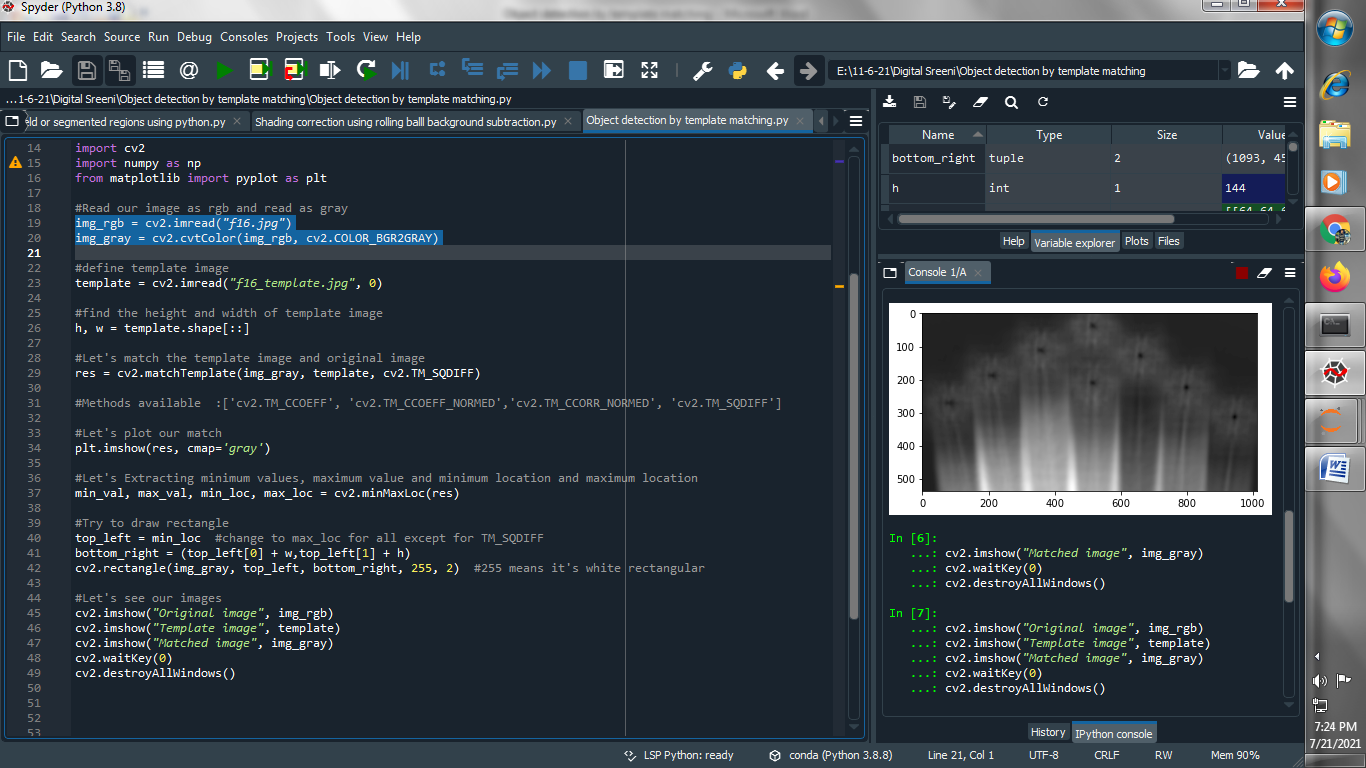
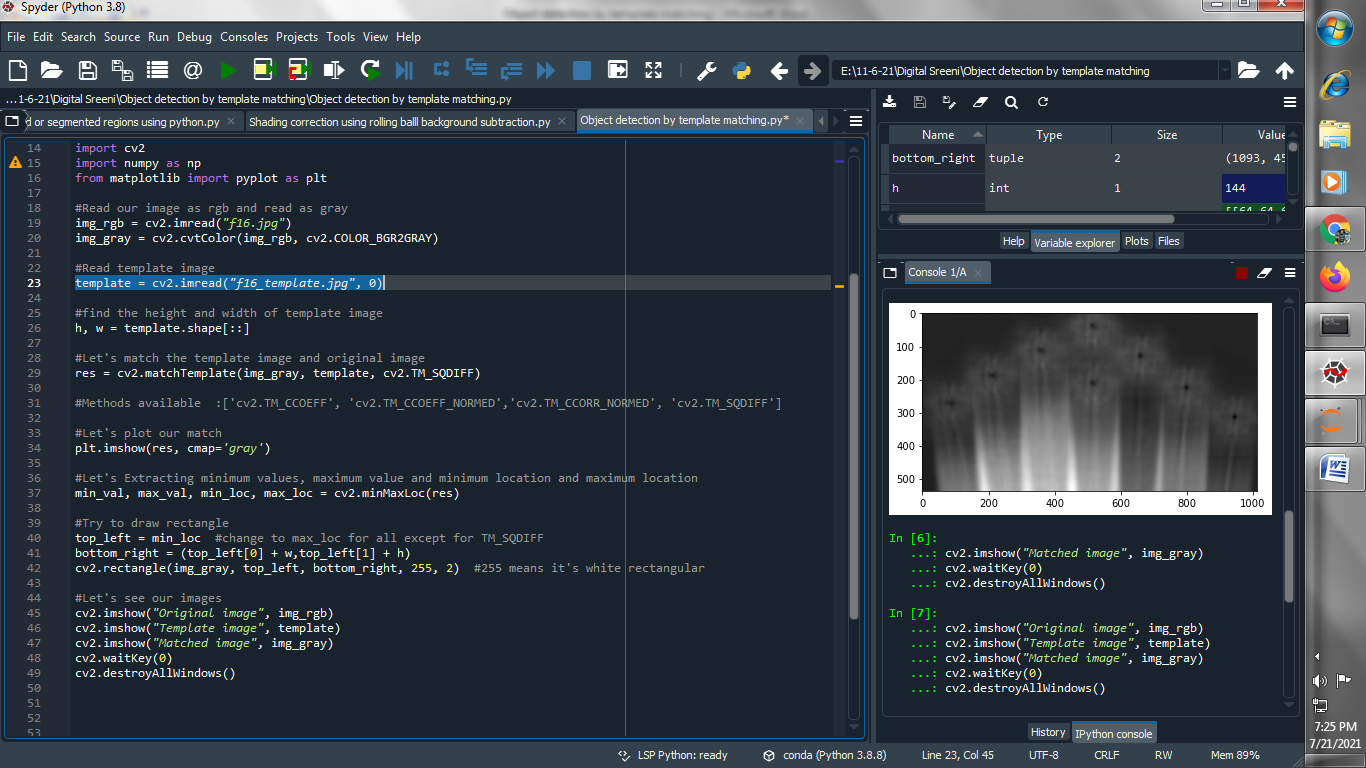
**Object detection by template matching :**

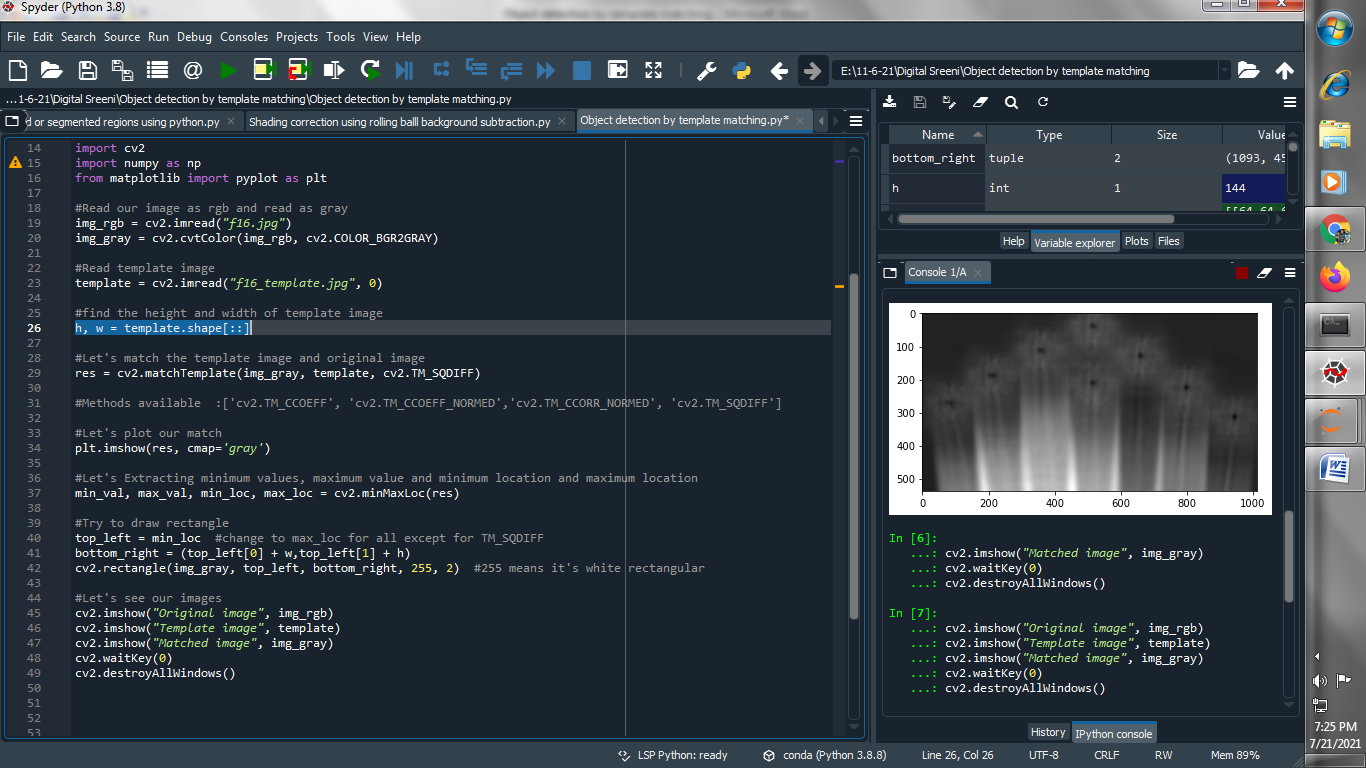
**(1) Read our image as rgb and gray image :**

****

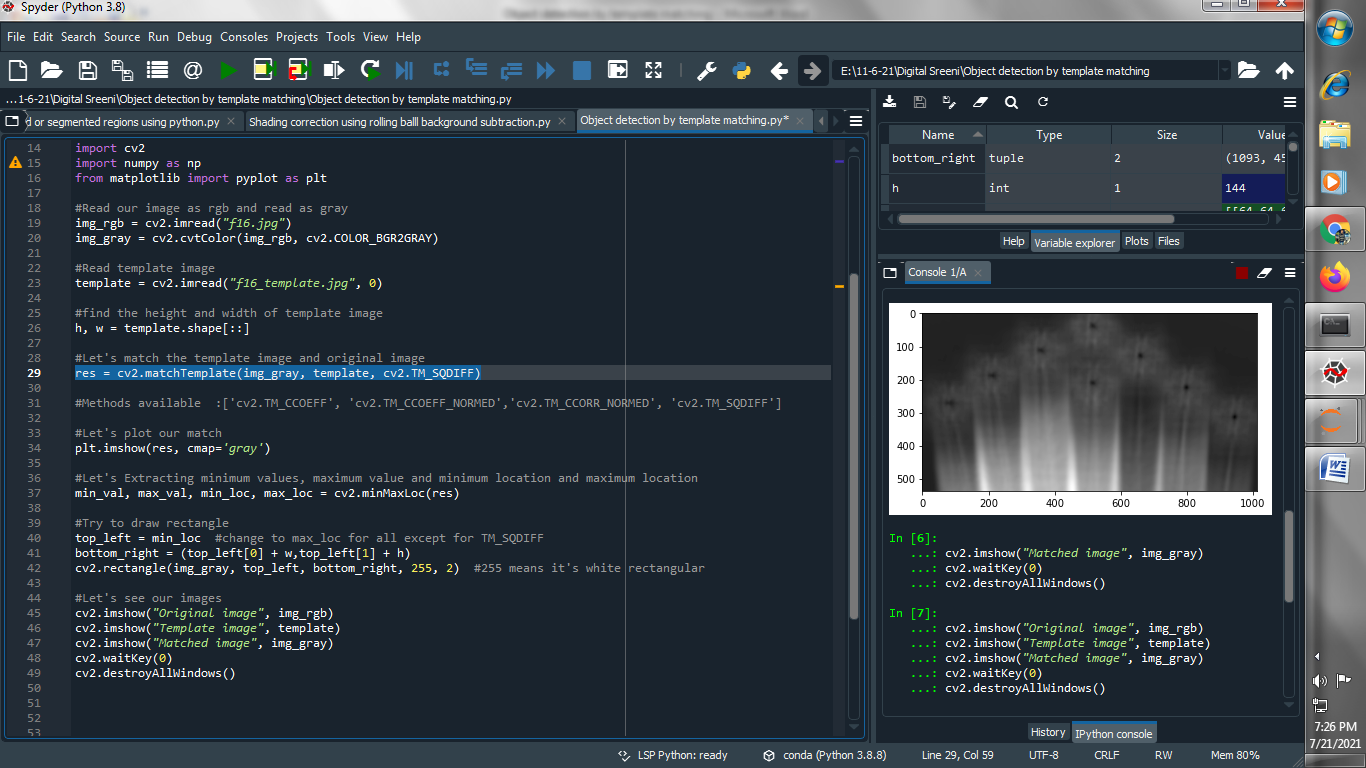
**(2) Read template image :**

****

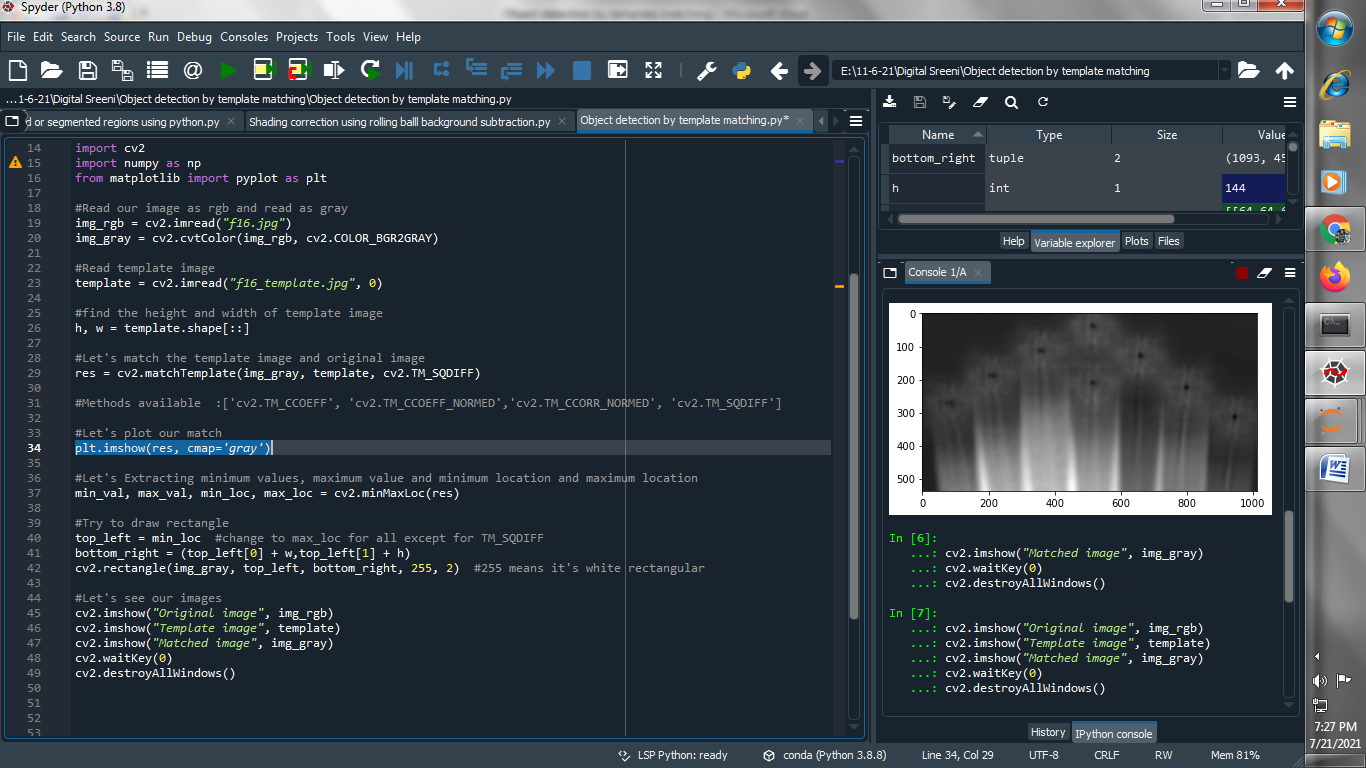
**(3) find the height and width of template image :**

****

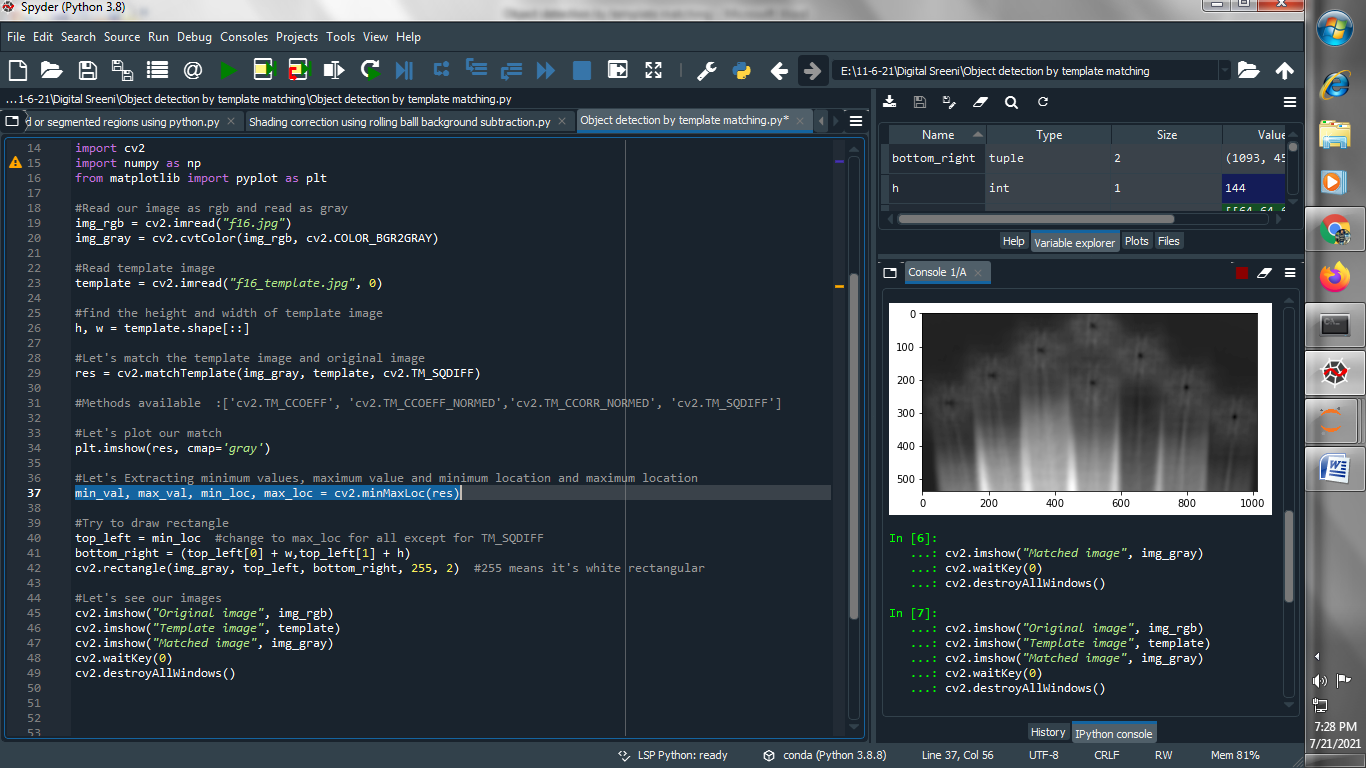
**(4) Let's match the template image and original image :**

****

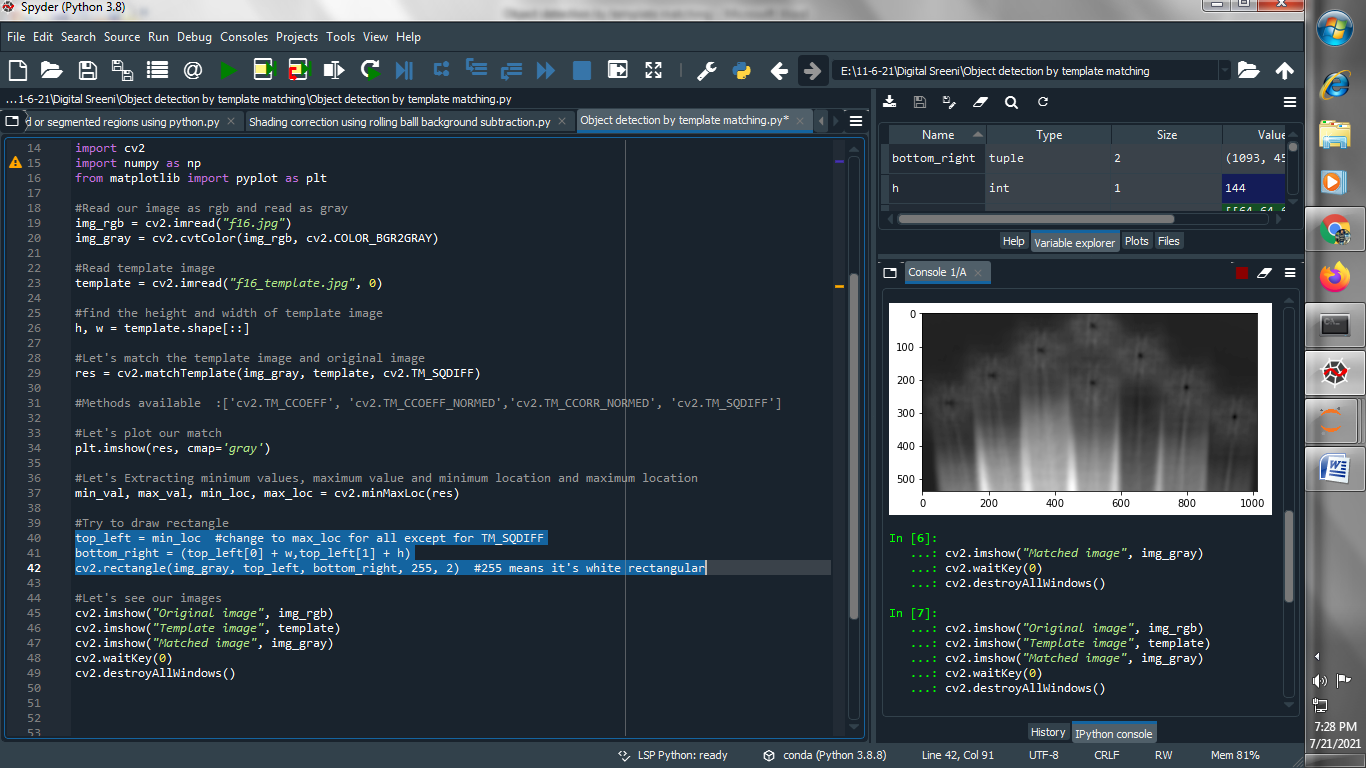
**(5) Let's plot our match :**

****

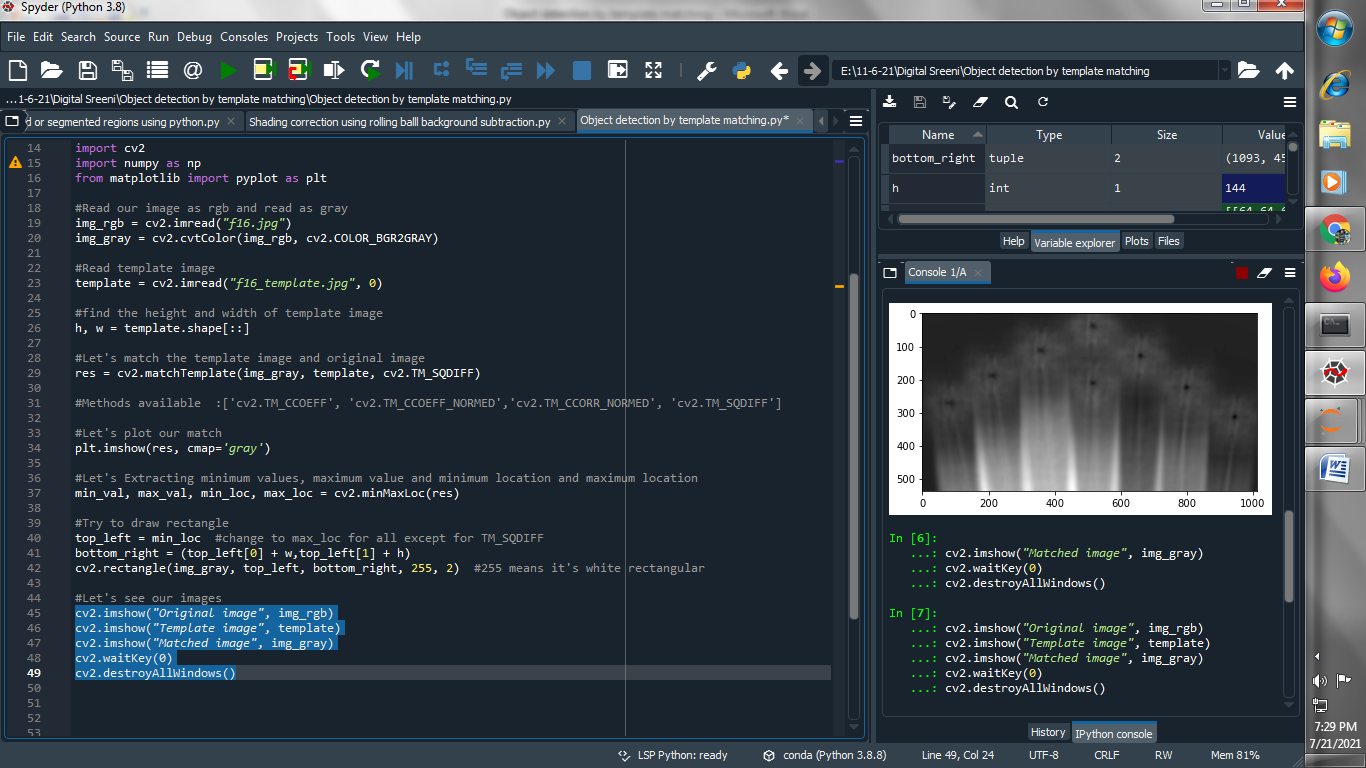
**(6) Let's Extracting minimum values, maximum value and minimum location and maximum location :**

****

**(7) Try to draw rectangle :**

****

**(8) Let's see our images :**

****

**Output :**

**Original image :**

****

**Template image:**

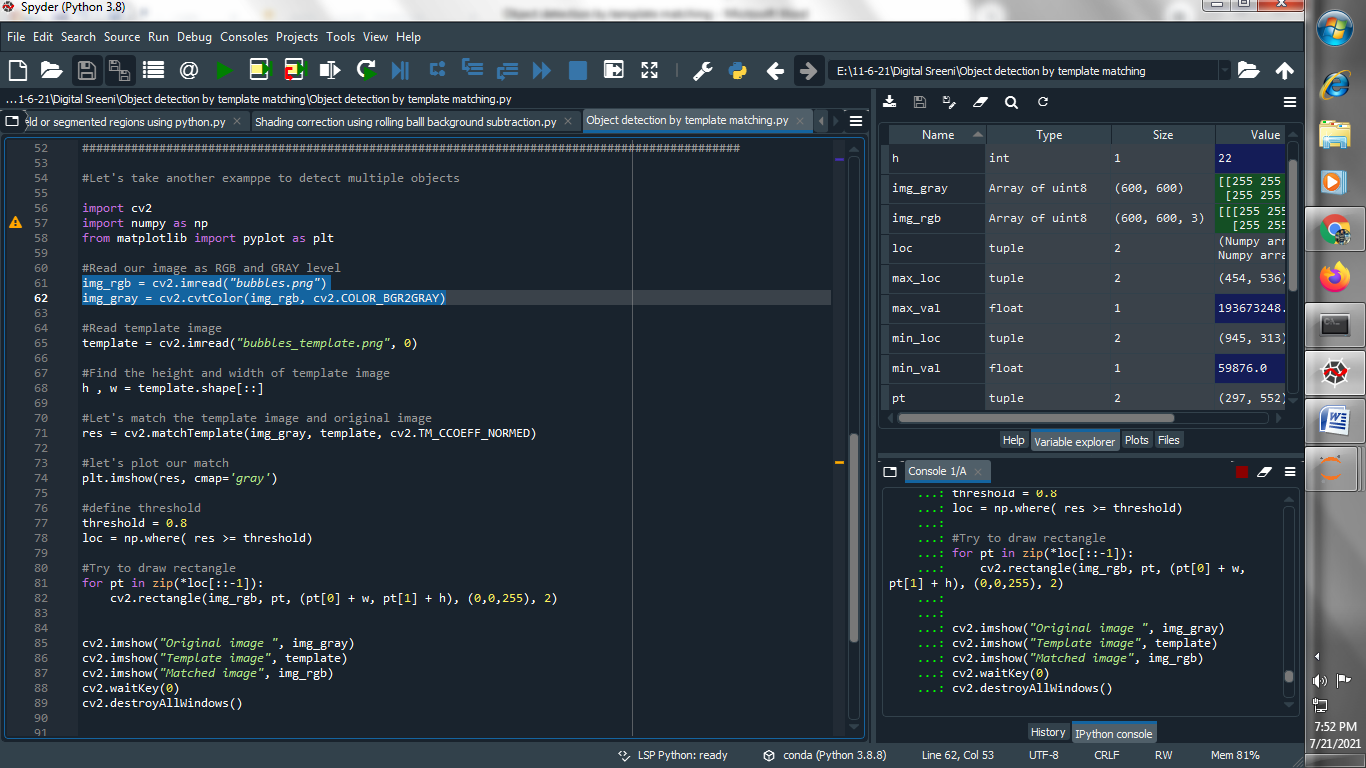
****

**Matched the image :**

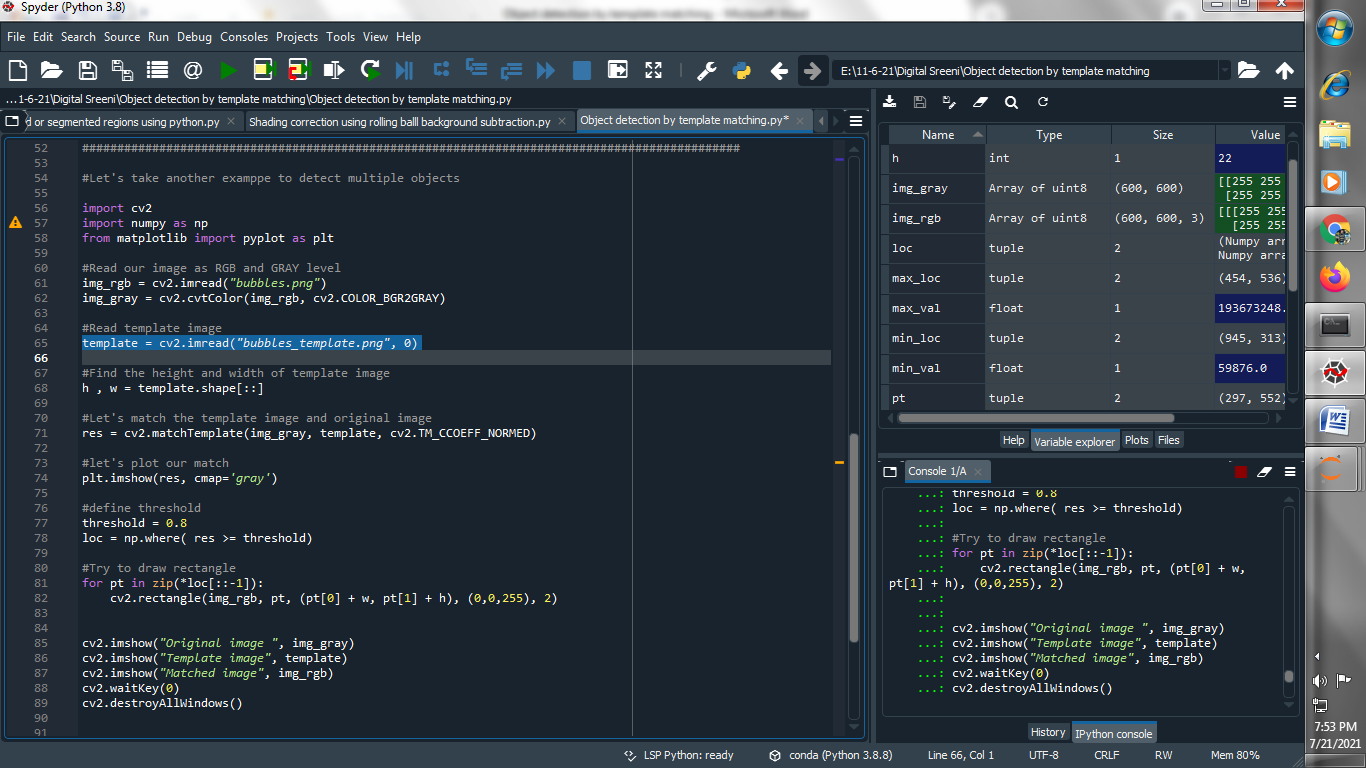
****

**→ Let's take another example to detect multiple objects :**

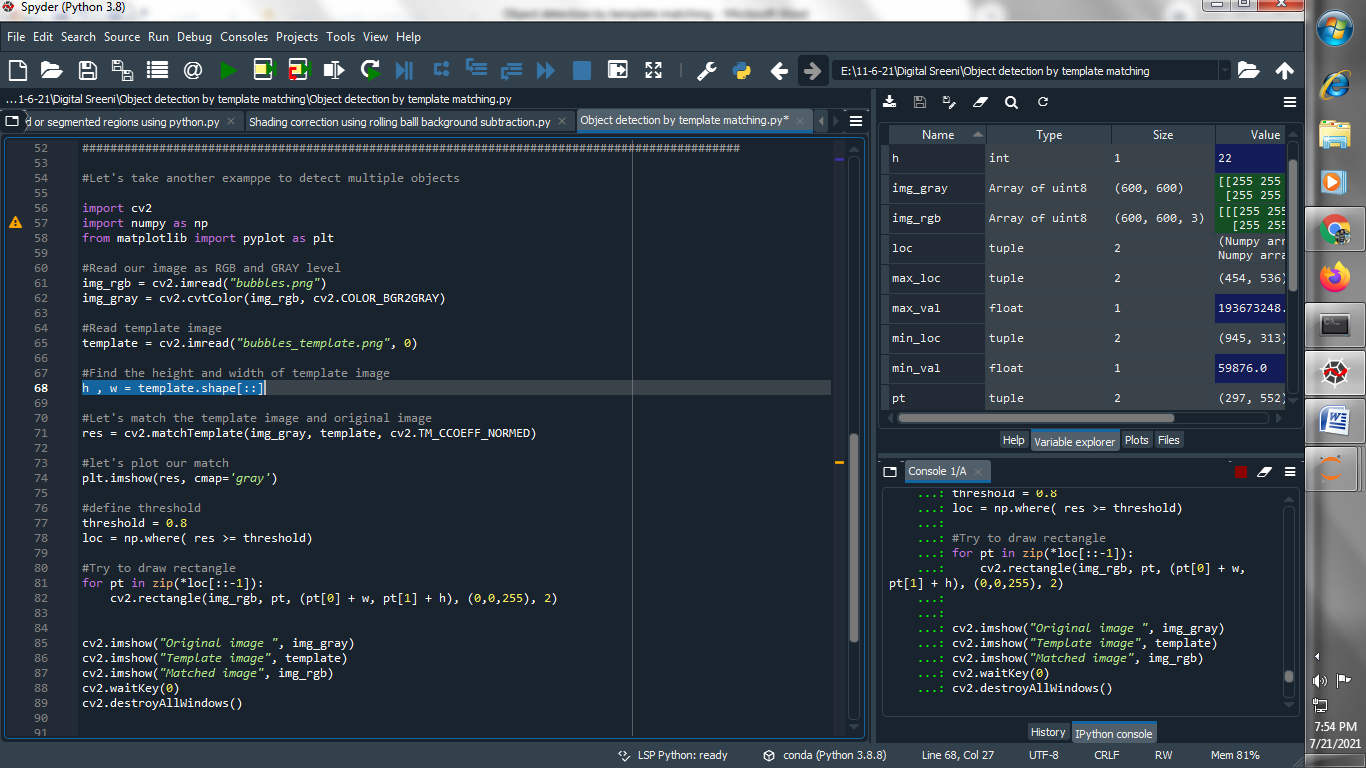
**(1) Read our RGB image and Gray level image :**

****

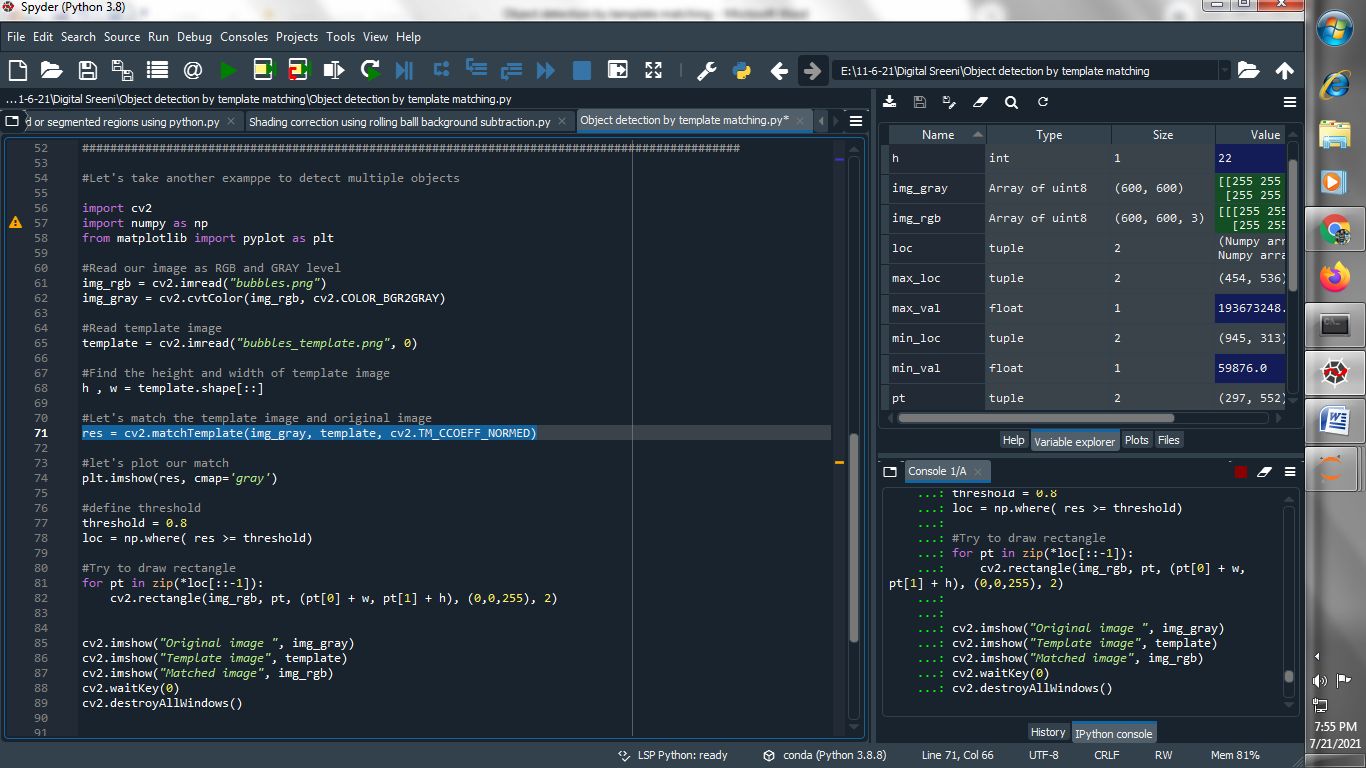
**(2) Read template image :**

****

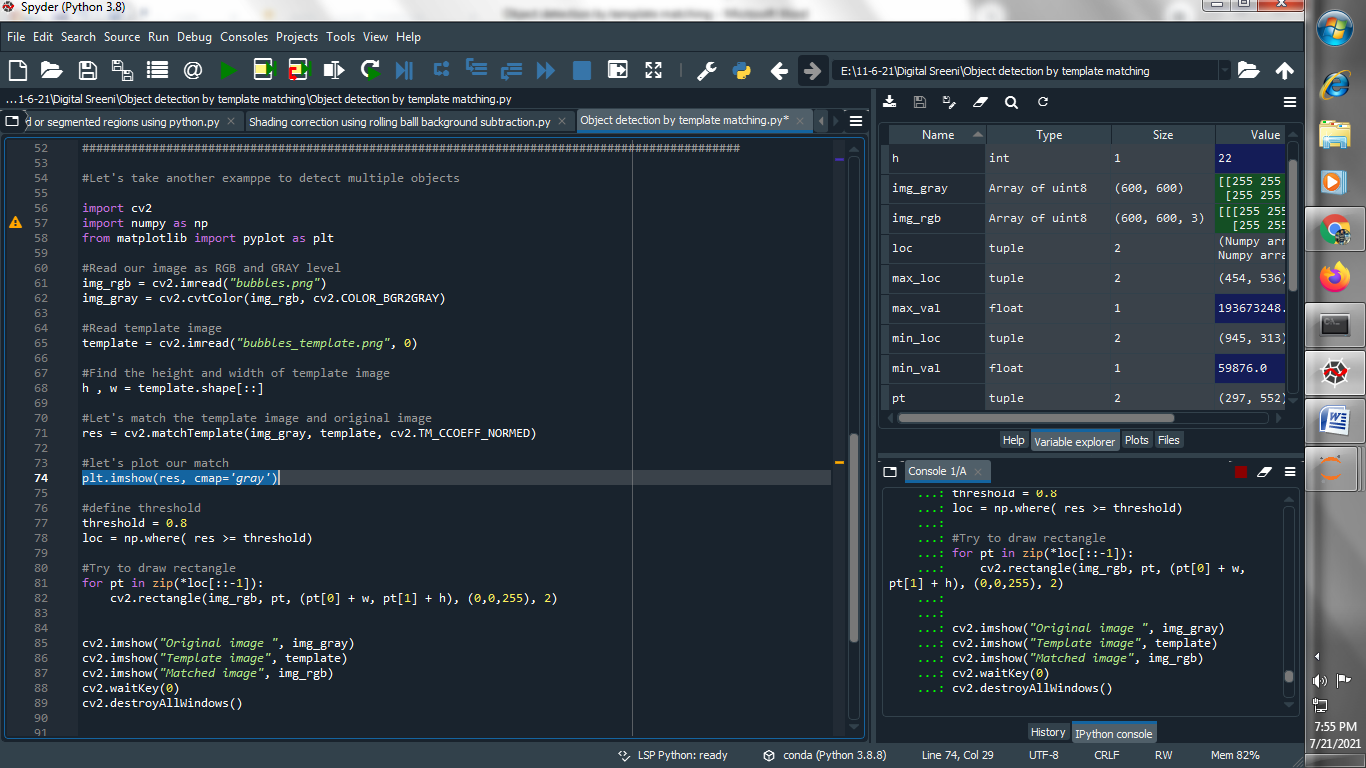
**(3) Find the height and width of template image :**

****

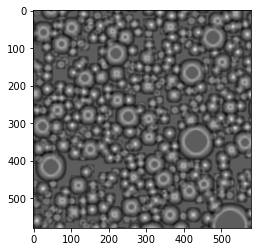
**(4) Let's match the template image and original image :**

****

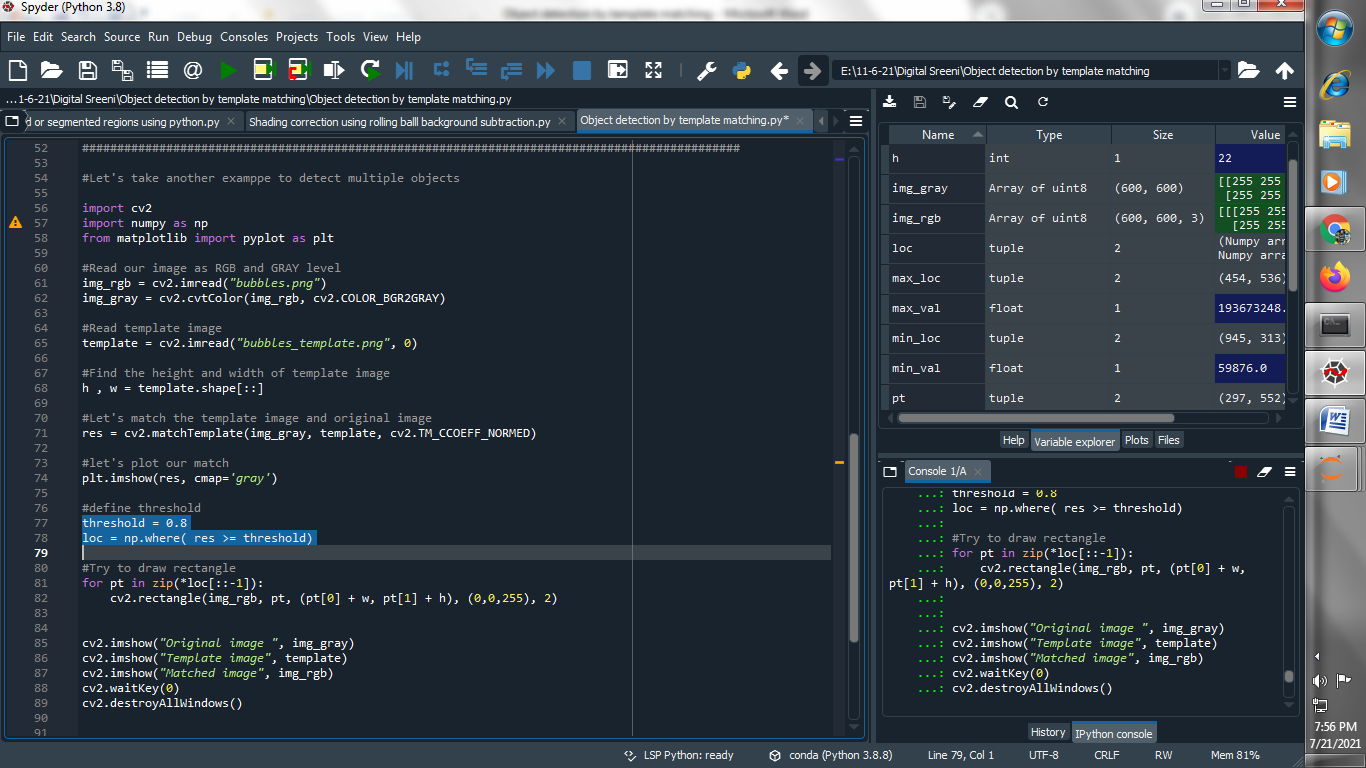
**(5) let's plot our match :**

****

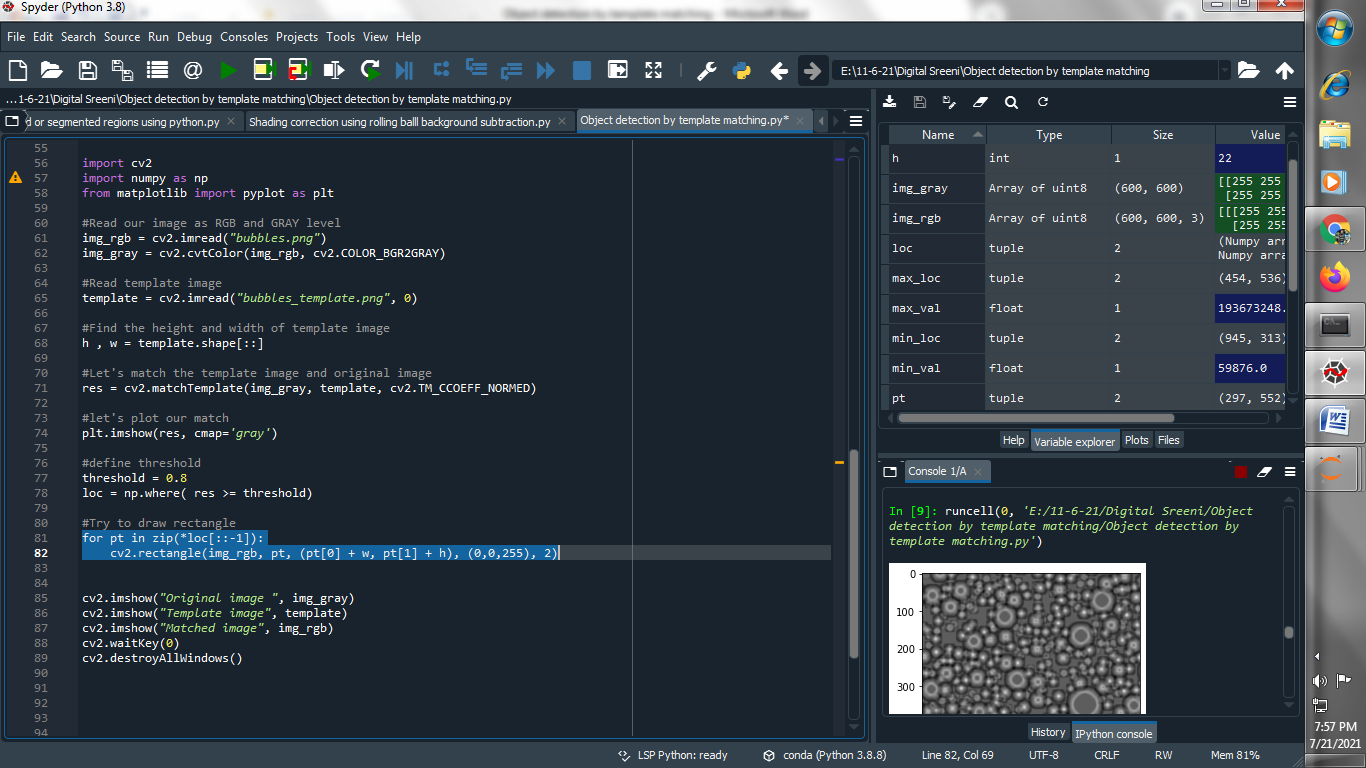
**Output :**

****

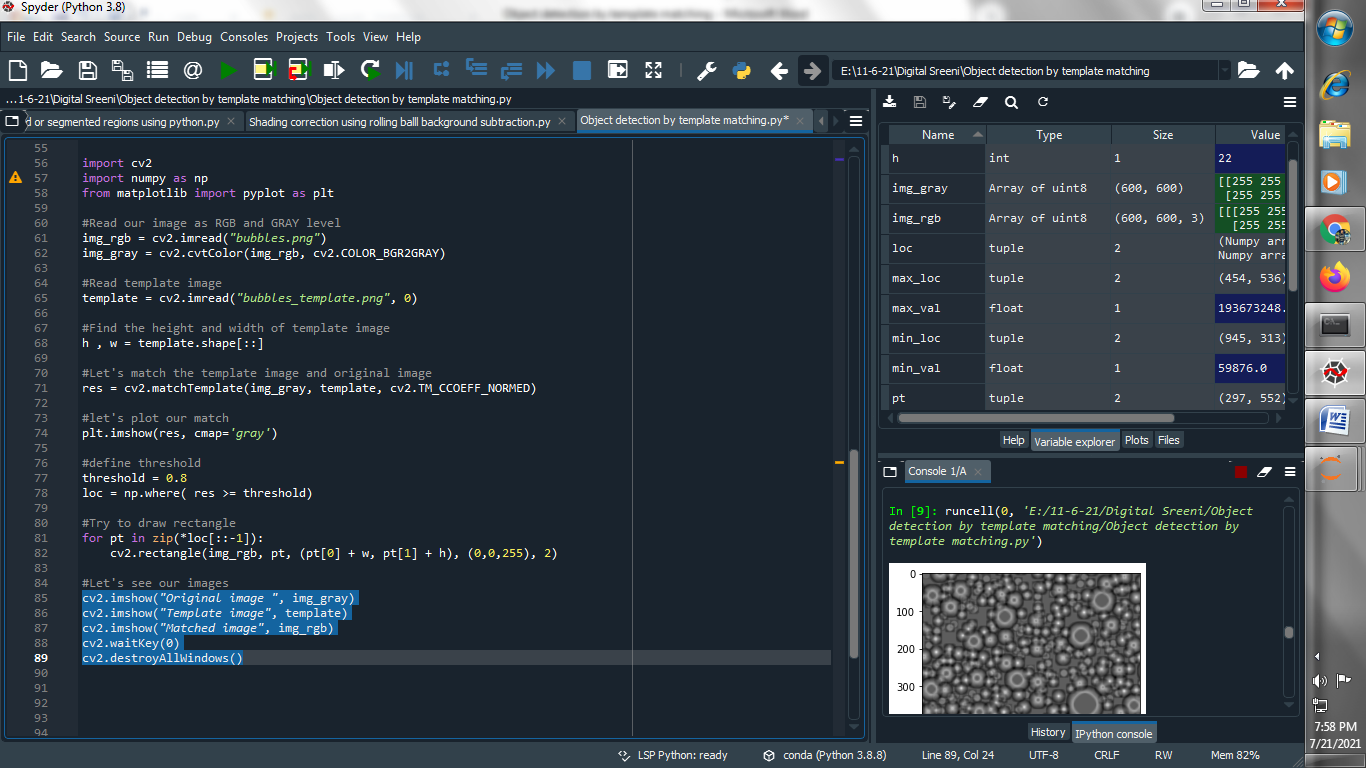
**(6) define threshold :**

****

**(7) Try to draw rectangle :**

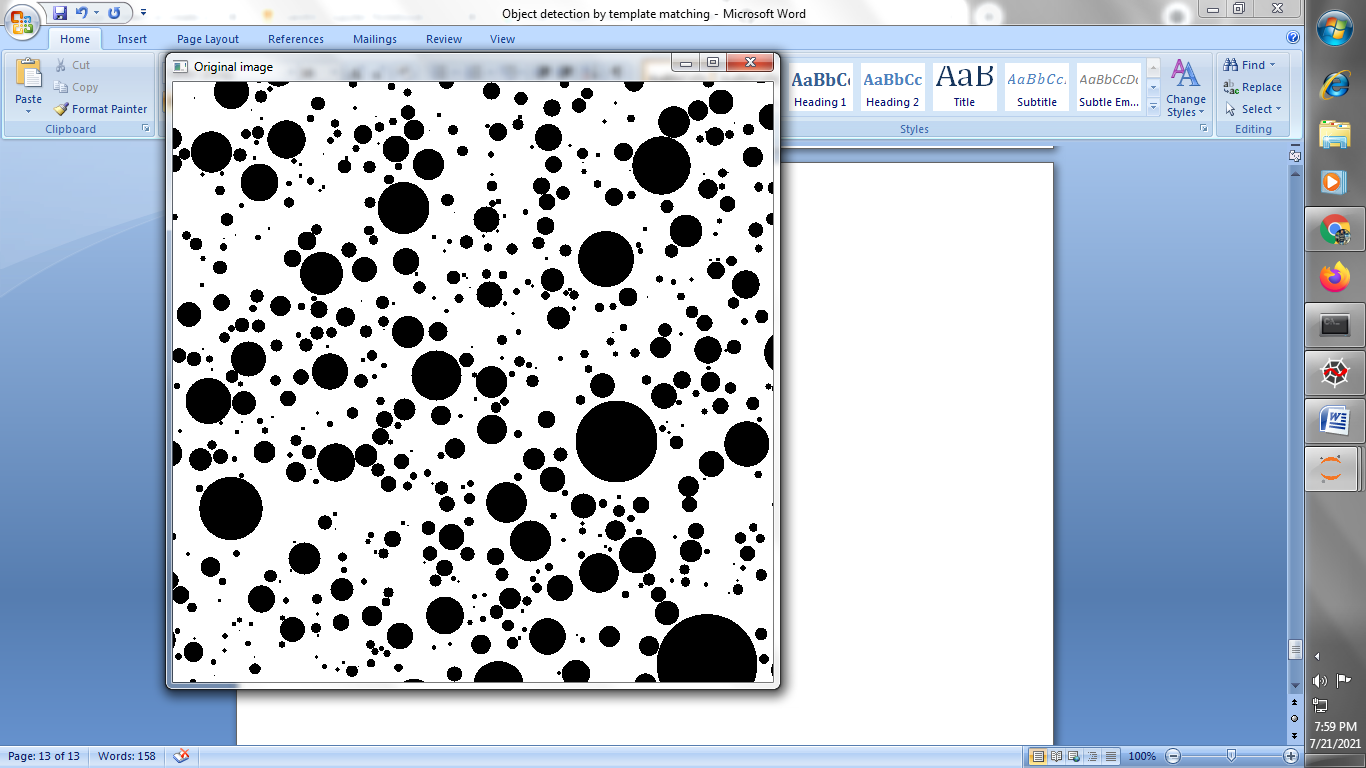
****

**(8) Let’s see our images :**

****

**Output :**

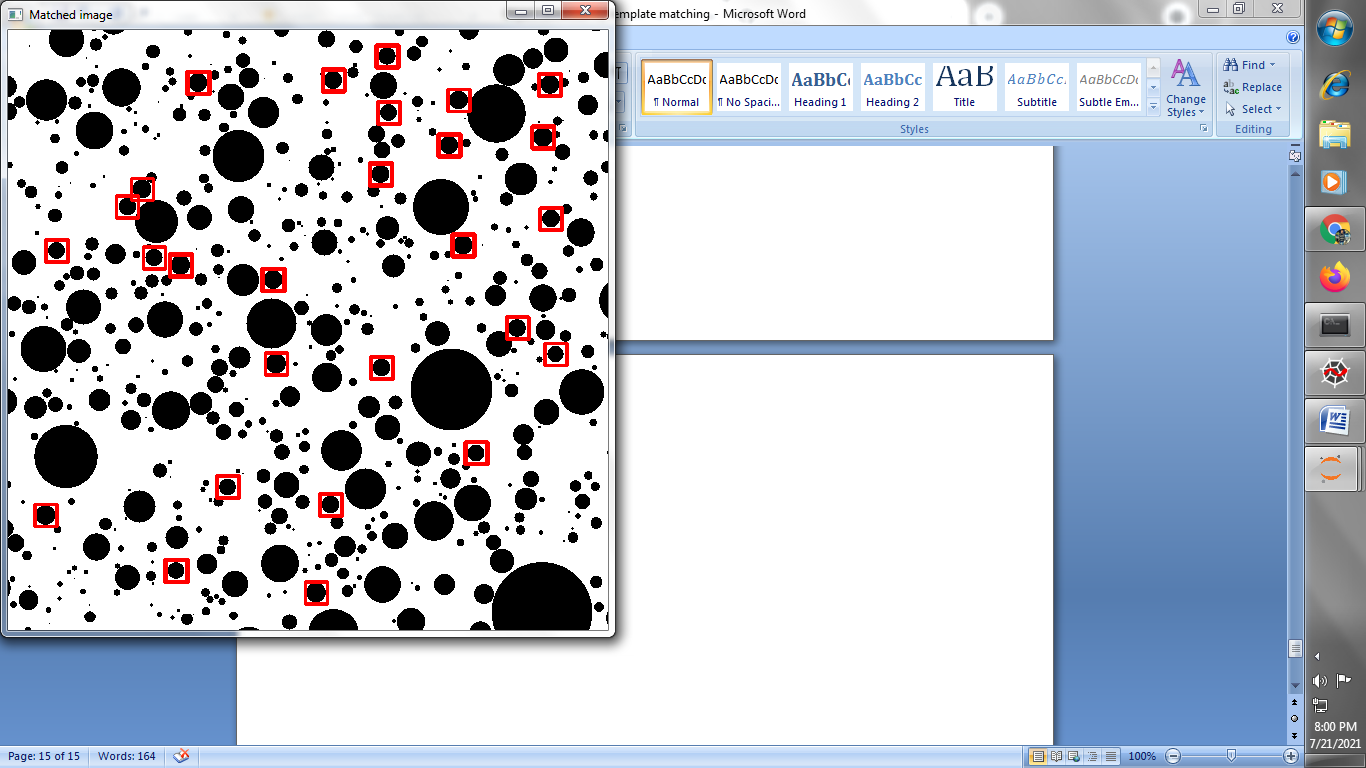
**Original image :**

****

**Template image :**

****

**Matched image :**

****