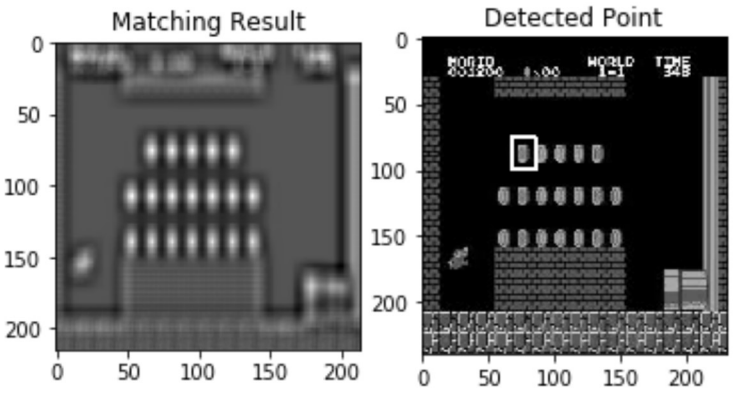
Template Matching

In [5]:
```
import cv2
import numpy as np
from matplotlib import pyplot as plt

img=cv2.imread('F:\mario.jpg',0)
template=cv2.imread('F:\mario_coin.jpg',0)
w,h=template.shape[::-1]
#all the 6 methods for comparison in a list
#methods=['cv2.TM_CCOEFF','cv2.TM_CCOEFF_NORMED','cv2.TM_CCORR',
        #'cv2.TM_CCORR_NORMED','cv2.TM_SQDIFF','cv2.TM_SQDIFF_NORMED']
res=cv2.matchTemplate(img,template,eval('cv2.TM_CCOEFF'))
min_val,max_val,min_loc,max_loc=cv2.minMaxLoc(res)
top_left=max_loc
bottom_right=(top_left[0]+w,top_left[1]+h)
cv2.rectangle(img,top_left,bottom_right,255,2)

plt.subplot(121),plt.imshow(res,cmap='gray')
plt.title('Matching Result')
plt.subplot(122),plt.imshow(img,cmap='gray')
plt.title('Detected Point')
```

Out[5]:
```
Text(0.5, 1.0, 'Detected Point')
```



In [ ]: