Data Science Intern @Lets Grow More

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Task 4 : Image to Pencil Sketch

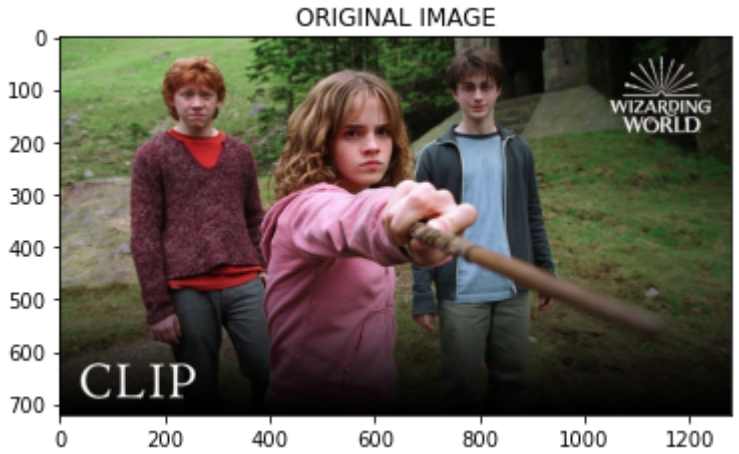
In [2]:
```
conda install opencv
```

```
Collecting package metadata (current_repodata.json): ...working... done
Note: you may need to restart the kernel to use updated packages.

Solving environment: ...working... done

# All requested packages already installed.
```

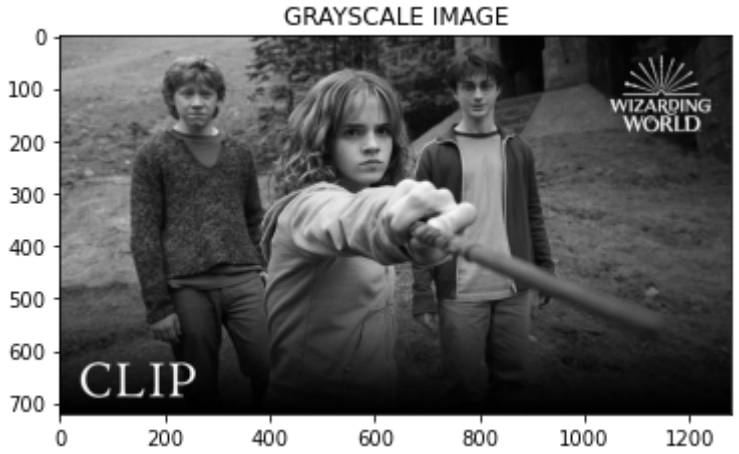
In [3]:
```
import cv2
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
import sys
import os
```

In [10]:
```
img = cv2.imread('img.jpg')
```

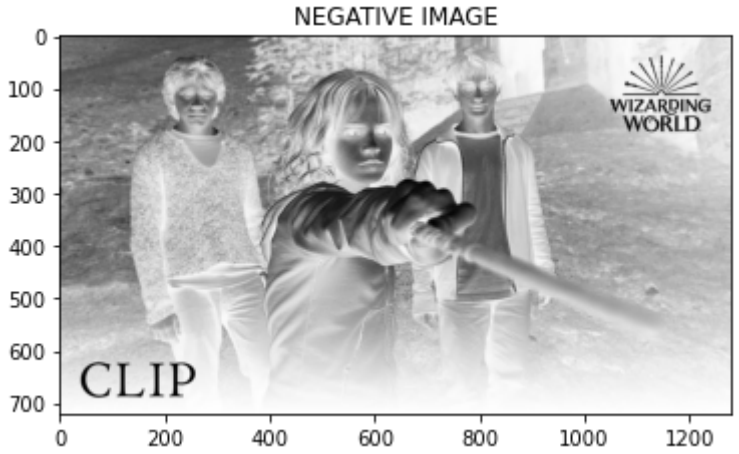
In [11]:
```
plt.imshow(cv2.cvtColor(img, cv2.COLOR_BGR2RGB))
plt.title("ORIGINAL IMAGE")
plt.show()
```



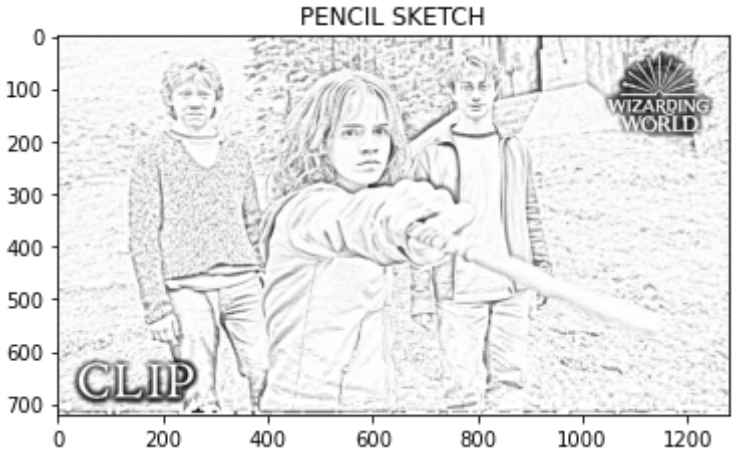
In [12]:
```
g_img=cv2.cvtColor(img,cv2.COLOR_BGR2GRAY)
plt.imshow(cv2.cvtColor(g_img, cv2.COLOR_BGR2RGB))
plt.title("GRAYSCALE IMAGE")
plt.show()
```



In [13]:
```
invert=cv2.bitwise_not(g_img)
plt.imshow(cv2.cvtColor(invert, cv2.COLOR_BGR2RGB))
plt.title("NEGATIVE IMAGE")
plt.show()
```



In [14]:
```
blur=cv2.GaussianBlur(invert, (31,31), 0)
inv_blur=cv2.bitwise_not(blur)
sketch=cv2.divide(g_img,inv_blur, scale=256.0)
plt.imshow(cv2.cvtColor(sketch, cv2.COLOR_BGR2RGB))
plt.title("PENCIL SKETCH")
plt.show()
```



In [ ]: