

QUESTION 1 : Write a program to find the complement of an image

```
import cv2

img = cv2.imread("./gray.jpeg")
print(img)

complement = 255 - img

# cv2.imwrite("complement.jpg", complement)
```

Output

```
[[[149 149 149]
  [152 152 152]
  [156 156 156]
  ...
  [ 74  74  74]
  [ 74  74  74]
  [ 74  74  74]]

[[157 157 157]
 [159 159 159]
 [161 161 161]
 ...
 [ 74  74  74]
 [ 74  74  74]
 [ 74  74  74]]

[[165 165 165]
 [167 167 167]
 [168 168 168]
 ...
 [ 74  74  74]
 [ 74  74  74]
 [ 74  74  74]]

...

[[192 192 192]
 [192 192 192]
 [192 192 192]
 ...
 [190 190 190]
 [188 188 188]
 [187 187 187]]

[[192 192 192]
 [192 192 192]
 [192 192 192]
 ...
 [190 190 190]
 [188 188 188]
 [187 187 187]]

[[192 192 192]
 [192 192 192]
 [192 192 192]]
```

```
...  
[190 190 190]  
[188 188 188]  
[187 187 187]]]  
print("Hello world")
```

Output

Hello world