## Let's Grow More Data Science Internship

## Task :- 01

In [8]:

Task Name :- Image to Pencil Sketch With Python

```
Name :- Ishika Goel
```

```
# Library we need for converting an image into a pencil sketch with Python is an OpenCV library in Python.
import cv2
In [9]:
## Reading the image:
image = cv2.imread("peacock.jpg")
cv2.imshow("Peacock", image)
cv2.waitKey(0)
Out[9]:
-1
In [10]:
## We will create a new image by converting the original image to greyscale:
gray_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
cv2.imshow("New Peacock", gray_image)
cv2.waitKey(0)
Out[10]:
-1
In [11]:
## Invert the new grayscale image:
inverted_image = 255 - gray_image
cv2.imshow("Inverted", inverted_image)
cv2.waitKey()
Out[11]:
-1
In [12]:
## Blur the image by using the Gaussian Function in OpenCV:
blurred = cv2.GaussianBlur(inverted_image, (21, 21), 0)
In [13]:
## Inverting the blurred image, so that we can easily convert the image into a pencil sketch:
inverted_blurred = 255 - blurred
pencil_sketch = cv2.divide(gray_image, inverted_blurred, scale=256.0)
cv2.imshow("Sketch", pencil_sketch)
cv2.waitKey(0)
Out[13]:
-1
In [14]:
## Original image and the pencil sketch:
cv2.imshow("original image", image)
cv2.imshow("pencil sketch", pencil_sketch)
cv2.waitKey(0)
Out[14]:
-1
```

## Thankyou!!









