Project 4: Image to Sketch Converter.

Objective:

Convert a color image to a pencil sketch using OpenCV.

OpenCV, Image Processing, External Libraries

Requirements :

* Upload or select an image file.
* Convert it to grayscale and then to sketch.
* Save the final result.

Code : - import cv2

def convert\_to\_sketch(image\_path, output\_path):

    img = cv2.imread(image\_path)

    if img is None:

        print("Error: Image not found or invalid path!")

        return

    gray\_img = cv2.cvtColor(img, cv2.COLOR\_BGR2GRAY)

    inverted\_img = 255 - gray\_img

    blurred\_img = cv2.GaussianBlur(inverted\_img, (21, 21), 0)

    inverted\_blurred = 255 - blurred\_img

    sketch = cv2.divide(gray\_img, inverted\_blurred, scale=256.0)

    cv2.imwrite(output\_path, sketch)

    print(f"Sketch saved successfully at {output\_path}")

if \_\_name\_\_ == "\_\_main\_\_":

    input\_image = input("Enter the path of the image: ").strip('"')

    output\_image = input("Enter the output path (e.g., sketch.png): ").strip('"')

    convert\_to\_sketch(input\_image, output\_image)

output :-

Original image



Sketch image