PROGRAM – 12

AIM:

To do a python program to perform image smoothing and blurring

ALGORITHM:

1. **Import module:** Import cv2 (OpenCV library).

2. **Read image:** Load the image using cv2.imread('Bean.tiff').

3. **Display original:** Show the original image using cv2.imshow().

4. **Apply Gaussian Blur:**

* Use cv2.GaussianBlur() with a (5, 5) kernel and sigma value 0.
* Display the result using cv2.imshow().

5. **Apply Median Blur:**

* Use cv2.medianBlur() with a kernel size of 5.
* Display the result using cv2.imshow().

6. **Apply Bilateral Filter:**

* Use cv2.bilateralFilter() with diameter 9, and sigma values 75 for both color and space.
* Display the result using cv2.imshow().

7. **Wait and close:** Wait for a key press using cv2.waitKey(0) and close all windows using cv2.destroyAllWindows().

OUTPUT:

