## Experiment # 6

**AIM:** Implementation of filters for smoothening images.

## **Tasks**

- (i) Use 12x12 random matrix with maximum gray level 32.
- (ii) Convolution with padding 1 and 2.
- 2. Smoothen an image added with a noise with the following filters: (i) average (ii) median (iii) Box (iv) Gaussian.

```
For noise addition you may use below:

uni_noise=np.zeros((640,480),dtype=np.uint8)

cv2.randu(uni_noise,0,255)

uni_noise=(uni_noise*0.5).astype(np.uint8)In [8]:

un_img=cv2.add(img,uni_noise)
```