Lab 2b

Name : Abhinav Pandey

Roll No: AM.EN.U4AIE21088

In [ ]:
```
from PIL import Image, ImageFilter
```

In [ ]:
```
filename = 'home.jpg'
with Image.open(filename) as img:
    img.load()
type(img)
isinstance(img, Image.Image)
```

Out[ ]:
```
True
```

In [ ]:
```
import matplotlib.pyplot as plt
plt.imshow(img)
```

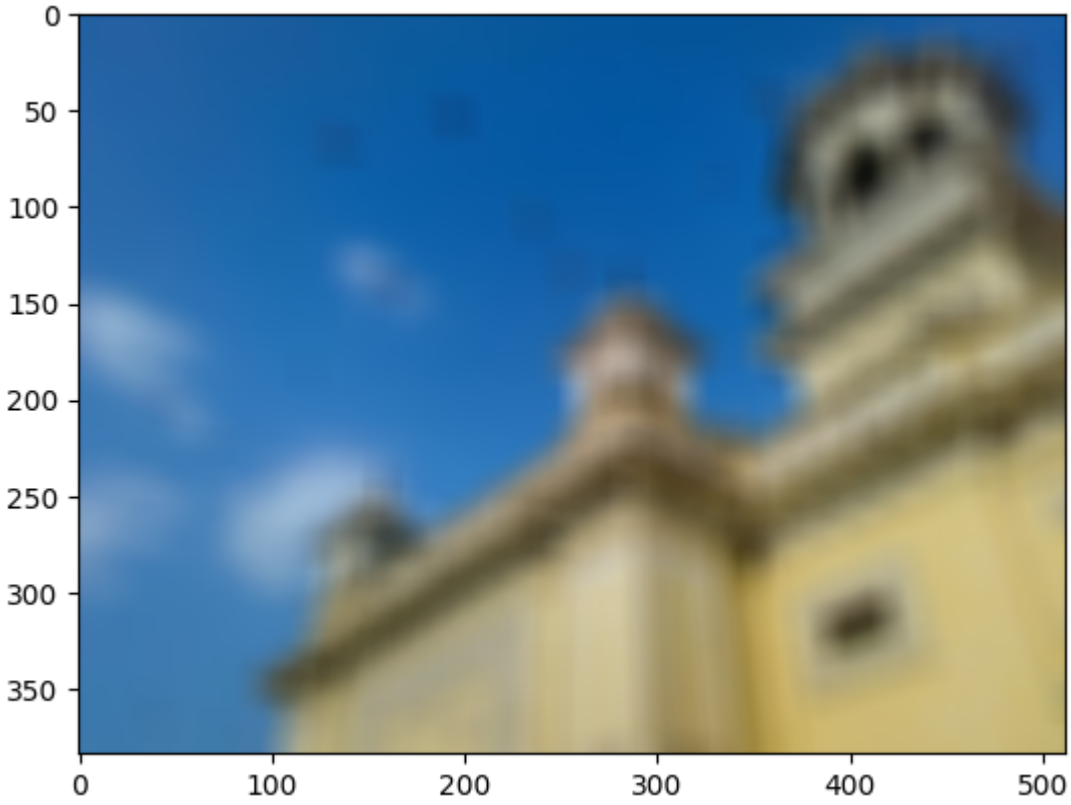
Out[ ]:
```
<matplotlib.image.AxesImage at 0x7fa249eccbb0>
```

In [ ]:
```
blur_img = img.filter(ImageFilter.BLUR)
plt.imshow(blur_img)
```

Out[ ]:
```
<matplotlib.image.AxesImage at 0x7fa249dccac0>
```

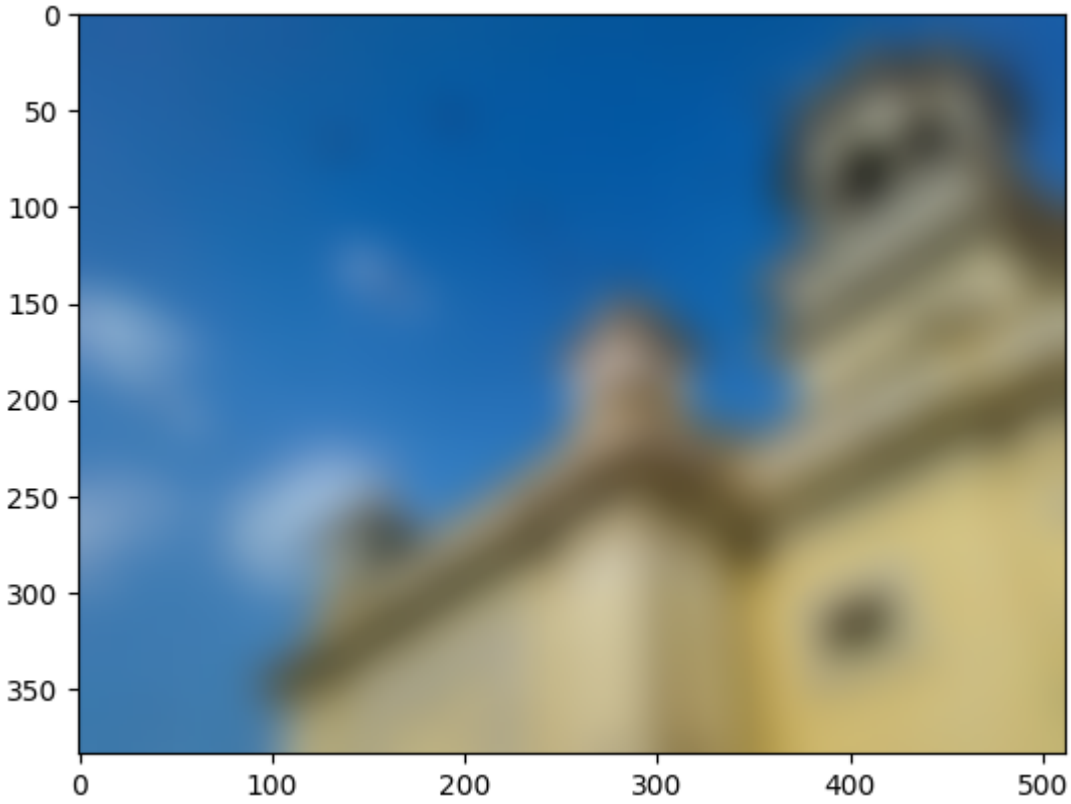
In [ ]:
```
blur_img=img.filter(ImageFilter.BoxBlur(10))
plt.imshow(blur_img)
```

Out[ ]: <matplotlib.image.AxesImage at 0x7fa24642add0>



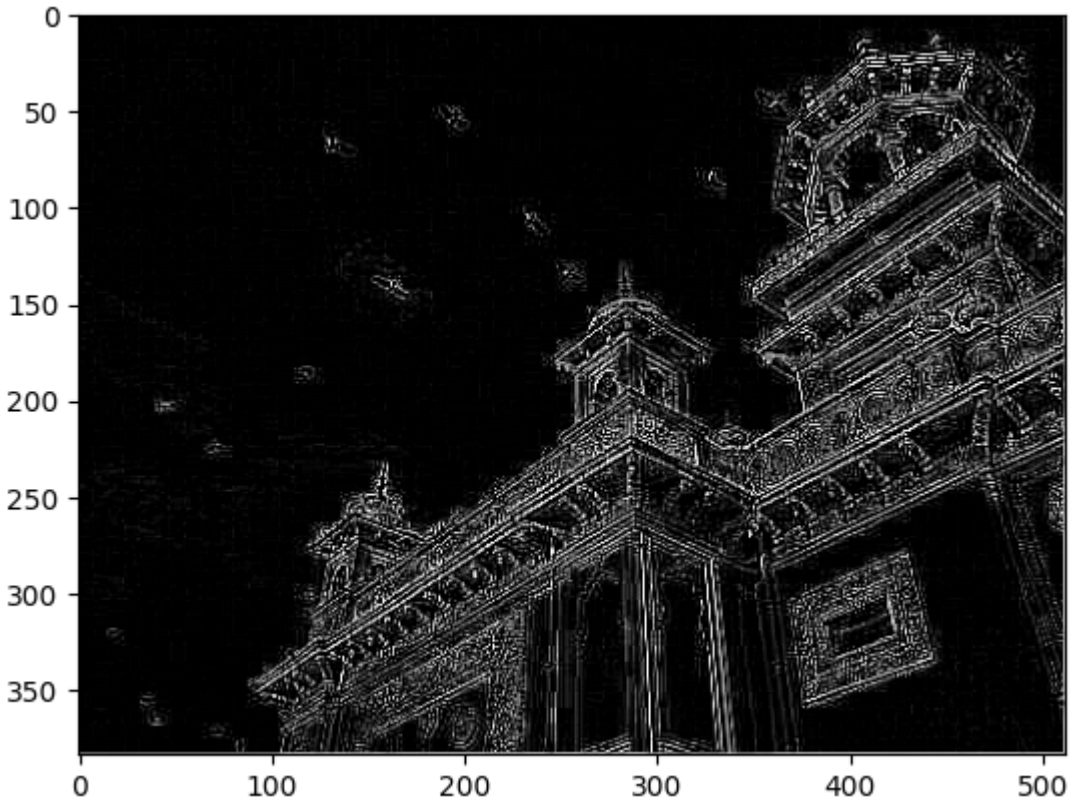
In [ ]:
```
gauss_blur = img.filter(ImageFilter.GaussianBlur(10))
plt.imshow(gauss_blur)
```

Out[ ]: <matplotlib.image.AxesImage at 0x7fa2464c4c40>



In [ ]:
```
img_gray = img.convert('L')
# img_gray_smooth = img_gray.filter(ImageFilter.SMOOTH)
edges = img_gray.filter(ImageFilter.FIND_EDGES)
plt.imshow(edges, cmap='gray')
```

Out[ ]: <matplotlib.image.AxesImage at 0x7fa2463335b0>



In [ ]:
```
img_gray_smooth=img_gray.filter(ImageFilter.SMOOTH)
edges_smooth=img_gray_smooth.filter(ImageFilter.FIND_EDGES)
```

```
plt.imshow(edges_smooth, cmap='gray')
```

Out[ ]: <matplotlib.image.AxesImage at 0x7fa2463c1660>