Laboratory 2

Pikovets Artem KM-22

1. **We are going to use PIL library for creating the image**

```
from PIL import Image, ImageDraw
```

2. **Create a blank 960×540 image (we also can specify the background color) 960 - width, 540 - height**

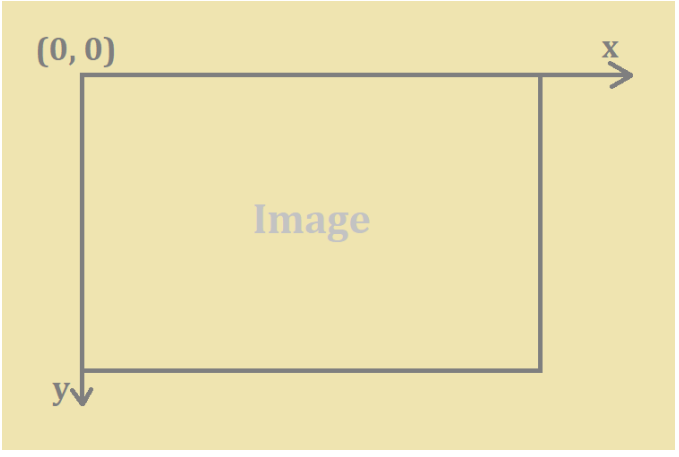
```
img = Image.new("RGB", size=(960, 540), color="#FFFFFF")
```

3. **Draw the points on the image**

   In the DS8.txt file we have coordinates in format (y, x):

```
389 599
389 600
389 601
389 602
389 603
390 174
390 175
```

   With images we have following axis:



axis for image pixels coordinates

So we loop through each point in the dataset and draw it on the image:

```
with open('../data/DS8.txt', 'r') as f:
    for line in f:
        # x and y are swapped in the data file
        y, x = tuple(map(int, line.split()))
        draw.point((x, y), fill="#B9AB8E")
```

4. **The result**

```
img.save("result-image.png")
```