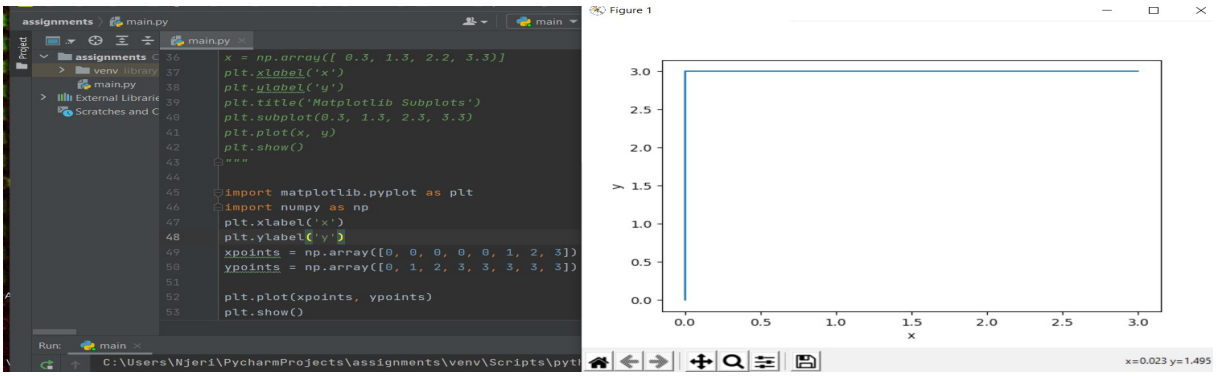
# Move robot to goal on a 1*1 grid

Plot 1

```
import matplotlib.pyplot as plt
import numpy as np
xpoints = np.array([0, 0, 0, 0, 0, 1, 2, 3])
ypoints = np.array([0, 1, 2, 3, 3, 3, 3, 3])
plt.plot(xpoints, ypoints)
plt.show()
```

**0**,0 **0**,1 **0**,2 **0**,3 **0**,3 **1**,3 **2**,3 **3**,3

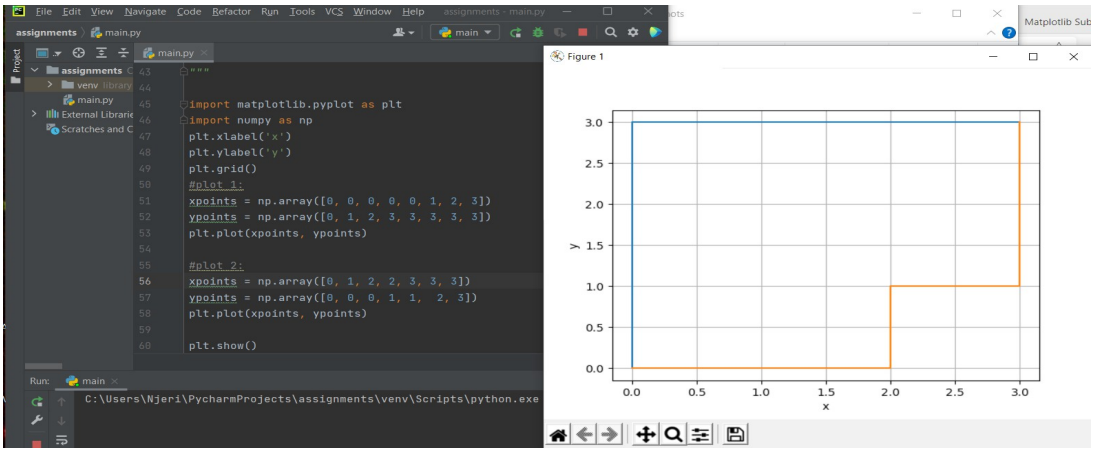
x= 0, 0, 0, 0, 0, 1, 2, 3
y= 0, 1, 2, 3, 3, 3, 3, 3




```
#plot 2:
xpoints = np.array([0, 1, 2, 2, 3, 3, 3])
ypoints = np.array([0, 0, 0, 1, 1,  2, 3])
plt.plot(xpoints, ypoints)
```

**0**,0 **1**,0 **2**,0 **2**,1 **3**,1 **3**,2 **3**,3

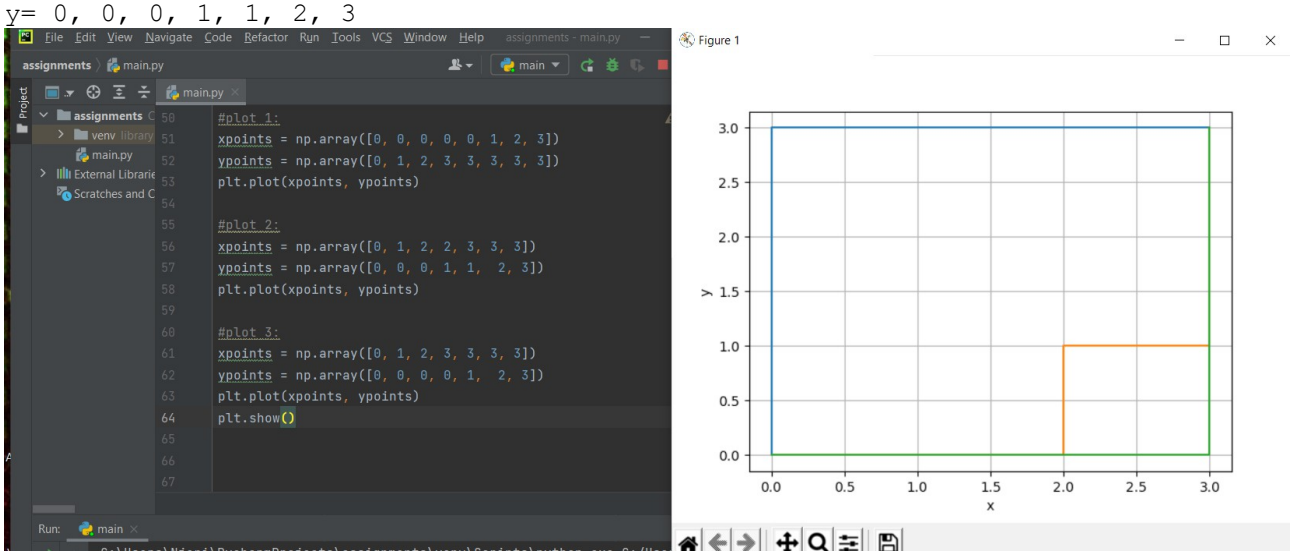
x= 0, 1, 2, 2, 3, 3, 3
y= 0, 0, 0, 1, 1, 2, 3



```
#plot 3:
xpoints = np.array([0, 1, 2, 3, 3, 3, 3])
ypoints = np.array([0, 0, 0, 0, 1,  2, 3])
plt.plot(xpoints, ypoints)
```

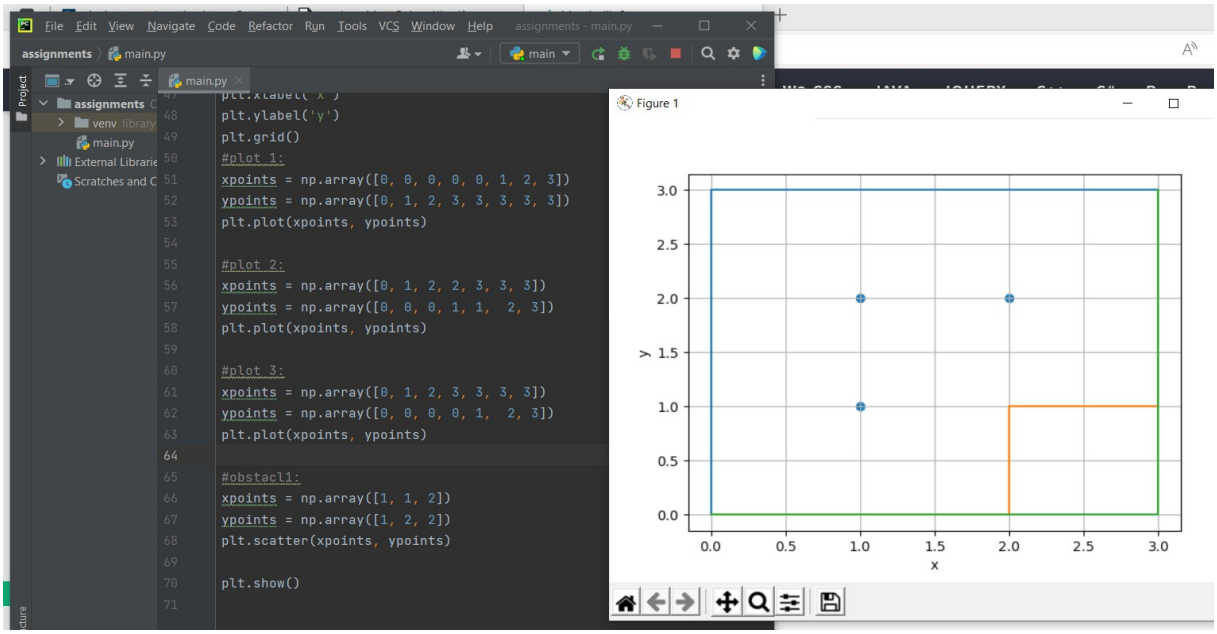
**0**,0 **1**,0 **2**,0 **2**,1 **3**,1 **3**,2 **3**,3

x= 0, 1, 2, 2, 3, 3, 3
y= 0, 0, 0, 1, 1, 2, 3




## Obstacles

**1**,1 **1**,2 **2**,2
**x = 1, 1, 2**
**y = 1, 2, 2**



```
import matplotlib.pyplot as plt
import numpy as np
plt.xlabel('x')
plt.ylabel('y')
plt.grid()
#plot 1:
xpoints = np.array([0, 0, 0, 0, 0, 1, 2, 3])
ypoints = np.array([0, 1, 2, 3, 3, 3, 3, 3])
plt.plot(xpoints, ypoints)
#plot 2:
xpoints = np.array([0, 1, 2, 2, 3, 3, 3])
ypoints = np.array([0, 0, 0, 1, 1,  2, 3])
plt.plot(xpoints, ypoints)
#plot 3:
xpoints = np.array([0, 1, 2, 3, 3, 3, 3])
ypoints = np.array([0, 0, 0, 0, 1,  2, 3])
plt.plot(xpoints, ypoints)
#obstacls:
xpoints = np.array([1, 1, 2])
ypoints = np.array([1, 2, 2])
plt.scatter(xpoints, ypoints)
plt.show()
```