

In [8]:

```
import numpy as np
from random import randint
import random
```

creation of environnement

In [9]:

```
class Maze(object):

    # creation our maze
    def __init__(self):
        super(Maze, self).__init__()

        self.grid = [
            [0, 0, 1, 0],
            [0, -10, 0, 0],
            [0, 0, 0, -1],
            [0, -10, -10, 0],
            [0, 0, 0, 0]
        ]

        # Starting position
        self.y = 4
        self.x = 0

        self.actions = [
            [-1, 0], # Up
            [1, 0], # Down
            [0, -1], # Left
            [0, 1] # Right
        ]

    # return your agent to the initial position
    def reset(self):
        """
        Reset world
        """
        self.y = 4
        self.x = 0
        return (self.y*4+self.x+1)

    # this function made to move your agent to the next cell
    def step(self, action):
        """
        Action: 0, 1, 2, 3
        """
        self.y = max(0, min(self.y + self.actions[action][0], 4))
        self.x = max(0, min(self.x + self.actions[action][1], 3))

        return (self.y*4+self.x+1), self.grid[self.y][self.x]

    # here we show our grid on the screen
    def show(self):
        print("*****")
        y = 0
        for line in self.grid:
            x = 0
            for pt in line:
                print("%s\t" % (pt if y != self.y or x != self.x else "X"), end="")
                x += 1
            y += 1
```

```

        print("")
# here we insur that our agent has reach to the final state.... the final state
def is_finished(self):
    return self.grid[self.y][self.x] == 1

# in case of a wall.... the wall has punishment of -100
def is_wall(self):
    return self.grid[self.y][self.x] == -100

```

choose an action randomly or take the argmax action of Q-table

In [10]:

```

# choose an action randomly or take the argmax action of Q-table
def take_action(st, Q, eps):
    # Take an action
    if random.uniform(0, 1) < eps:
        action = randint(0, 3)
    else:
        # Or greedy action
        action = np.argmax(Q[st])
    return action

```

Main Code

In [21]:

```

env = Maze()
st = env.reset()
env.show()
# initialisation of Q-table or Look-up matrix
# rows represent number of state
# columns represent number of actions Up Down Left Right
Q = [
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0],
    [0, 0, 0, 0]
]

# here we take 200 cycles of Learning
for _ in range(200):

    # Reset our agent
    st = env.reset()
    while not env.is_finished():

```

```

# take action
at = take_action(st, Q, 0.4)

# save the current position
x=env.x
y=env.y

stp1, r = env.step(at)

# Update Q function
atp1 = take_action(stp1, Q, 0.0)

# in case of wall don't calculate the
if env.is_wall():
    env.x=x
    env.y=y
    continue

# formulation of relation of Q-Learning
Q[st][at] = Q[st][at] + 0.1*(r + 0.9*Q[stp1][atp1] - Q[st][at])

# show our grid
env.show()
st = stp1

env.show()

```

```
*****
0 0 1 0
0 -10 0 0
0 0 0 -1
0 -10 -10 0
X 0 0 0
*****
0 0 1 0
0 -10 0 0
0 0 0 -1
0 -10 -10 0
0 X 0 0
*****
0 0 1 0
0 -10 0 0
0 0 0 -1
0 -10 -10 0
X 0 0 0
*****
0 0 1 0
0 -10 0 0
0 0 0 -1
0 -10 -10 0
0 0 0 0
*****
0 0 1 0
0 -10 0 0
X 0 0 -1
0 -10 -10 0
0 0 0 0
*****
0 0 1 0
X -10 0 0
0 0 0 -1
0 -10 -10 0
0 0 0 0
*****
X 0 1 0
0 -10 0 0
0 0 0 -1
0 -10 -10 0
0 0 0 0
*****
```

0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	X	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	X	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	X	0

0	0	1	0

0	-10	0	0
0	0	0	-1
0	-10	X	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	X	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	X	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
X	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
X	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0

0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0

0	0	X	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	X

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	X
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	X
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	X
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	X
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	X
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	X
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	X
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	X

0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	X
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	X	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	X	-10	0

0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	X	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	X	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	X	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0

0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	X	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	X	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	X	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	X	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	X	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	-10	-10	0

0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0

0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	X	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	X	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	X	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	X	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0

0	-10	0	0
0	0	X	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	X	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	X	-10	0
0	0	0	0

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0	0	0	-1
0	-10	X	0
0	0	0	0

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0	0	0	-1
0	X	0	-1
0	-10	-10	0
0	0	0	0

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0	X	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
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0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
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0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	0	0

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0	0	0	-1
X	-10	-10	0
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X	0	0	-1
0	-10	-10	0
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0	0	0	-1
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0	0	0	0

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0	-10	-10	0
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0	-10	-10	0
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X	-10	-10	0
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0	-10	-10	0
0	0	0	0

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0	0	0	-1
X	-10	-10	0
0	0	0	0

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0	-10	-10	0
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0	-10	-10	0
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0	0	0	-1
0	-10	-10	0
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0	0	0	-1
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X	0	0	-1
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0	-10	-10	0
0	0	0	0

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0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

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0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

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X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
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0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
0	-10	-10	0
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0	0	0	-1
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0	0	0	-1
0	-10	-10	0
0	0	0	0

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X	-10	-10	0
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0	-10	-10	0
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X	-10	-10	0
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0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	-10	0	X
0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	X
0	-10	-10	0
0	0	0	0

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0	0	X	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
0	-10	-10	0
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0	0	X	0

0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
X	-10	-10	0
0	0	0	0

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X	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
0	-10	-10	0
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0	-10	-10	0
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X	-10	-10	0
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0	-10	-10	0
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0	-10	-10	0
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X	-10	-10	0
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0	-10	-10	0
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0	-10	-10	0
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X	-10	-10	0
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X	-10	-10	0

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0	-10	-10	0
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0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
0	-10	-10	0
0	0	0	0

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X	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
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0	-10	-10	0

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0	-10	-10	0
0	0	0	0

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0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0

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0	-10	-10	0
0	0	0	0

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0	0	0	-1
X	-10	-10	0
0	0	0	0

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X	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
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0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	-10	-10	0
0	0	0	0

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0	0	0	0

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0	0	0	0

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X	-10	-10	0

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0	-10	-10	0
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0	-10	-10	0
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0	-10	-10	0
0	0	0	0

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0	-10	-10	0
0	0	0	0

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0	0	0	-1
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0	0	0	0

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0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	0	0	-1
X	-10	-10	0
0	0	0	0

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0	-10	-10	0
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0	0	0	0

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0	0	0	-1
0	-10	-10	0
0	0	0	0

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0	-10	-10	0
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*****
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*****
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0      0       1      0
0      -10    0      0
0      0       0      -1
X      -10    -10    0
0      0       0      0
*****
0      0       1      0
0      -10    0      0
0      0       0      -1
X      -10    -10    0
0      0       0      0
*****
0      0       1      0
0      -10    0      0
0      0       0      -1
0      -10    -10    0
X      0       0      0
*****
0      0       1      0
0      -10    0      0
0      0       0      -1
X      -10    -10    0
0      0       0      0
*****
0      0       1      0
0      -10    0      0
0      0       0      -1
X      -10    -10    0
0      0       0      0
*****
0      0       1      0
0      -10    0      0
0      0       0      -1
X      -10    -10    0
0      0       0      0
*****

```

0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0

0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	X	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
X	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0

X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	X	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	X	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
0	X	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	0	0	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	X	1	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	X	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	X	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	X	0
0	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
0	0	0	-1
X	-10	-10	0
0	0	0	0

0	0	1	0
0	-10	0	0
X	0	0	-1
0	-10	-10	0
0	0	0	0

0	0	1	0
X	-10	0	0
0	0	0	-1
0	-10	-10	0
0	0	0	0

X	0	1	0

```

0      -10      0      0
0       0      0      -1
0      -10     -10      0
0       0      0      0
*****
0       X      1      0
0      -10      0      0
0       0      0      -1
0      -10     -10      0
0       0      0      0
*****
0       X      1      0
0      -10      0      0
0       0      0      -1
0      -10     -10      0
0       0      0      0
*****
0       0      X      0
0      -10      0      0
0       0      0      -1
0      -10     -10      0
0       0      0      0
*****
0       0      X      0
0      -10      0      0
0       0      0      -1
0      -10     -10      0
0       0      0      0

```

In [22]:

```

a=env.reset()
# here
i=1
while not env.is_finished():
    print("Point ",i,"(",env.y,",",env.x,")")
    b=np.argmax(Q[a])
    a,_=env.step(b)
    i+=1

```

```

Point 1 ( 4 , 0 )
Point 2 ( 3 , 0 )
Point 3 ( 2 , 0 )
Point 4 ( 1 , 0 )
Point 5 ( 0 , 0 )
Point 6 ( 0 , 1 )

```

In [24]:

```

for s in range(1, 21):
    print("state : ",s,"==Q-table==> ", Q[s])

```

```

state : 1 ==Q-table==> [0.6730162662754405, 0.6160432650758652, 0.7368724678506012,
0.8999986751085609]
state : 2 ==Q-table==> [0.869524193726871, -9.032779986642502, 0.7552891885235866,
0.9999998122201933]
state : 3 ==Q-table==> [0, 0, 0, 0]
state : 4 ==Q-table==> [0.03685590000000004, 0.009255465000000003, 0.5695327900000
001, 0.0]
state : 5 ==Q-table==> [0.8099899779212698, 0.5689375675587132, 0.5314799348250416,
-8.820728030581032]
state : 6 ==Q-table==> [0.893161067829188, 0.30249474974172763, 0.3417832335930372
5, 0.48905903083535873]
state : 7 ==Q-table==> [0.9912720364319122, 0.2231824244294553, -1.773869229867691,
0.057856404655966406]
state : 8 ==Q-table==> [0.1897291035000002, -0.2401102679165965, 0.069410886790535
11, 0]
state : 9 ==Q-table==> [0.7289621623571574, 0.47189093889018696, 0.549213571426283
9, 0.4026268685158973]
state : 10 ==Q-table==> [-6.131422658302757, -3.3880843779819974, 0.283062772737214

```

```
2, 0.7075617501465237]
state : 11 ==Q-table==> [0.8646689163263794, -5.621984348258388, 0.1708836042917932
8, -0.4716507296849324]
state : 12 ==Q-table==> [0.00081000000000002, 0, 0.3940640748794281, -0.252167313
6214297]
state : 13 ==Q-table==> [0.6559860232245364, 0.3704475571087419, 0.3527426832252474
3, -9.279508664926393]
state : 14 ==Q-table==> [0.38801273131921726, 0.08091059302401081, 0.11139967698132
858, -5.625948038117513]
state : 15 ==Q-table==> [0.3305959677605883, 0.011504174707831499, -1.8722927923739
896, 0]
state : 16 ==Q-table==> [-0.1, 0, 0, 0]
state : 17 ==Q-table==> [0.5902002933246153, 0.4857731057695239, 0.3372216079571170
3, 0.2967291530090886]
state : 18 ==Q-table==> [-5.179547307427662, 0.20370320236797332, 0.474308126483101
56, 0.020730183122246004]
state : 19 ==Q-table==> [-1.899927100000002, 0.0, 0.1532542248423376, 0.0]
state : 20 ==Q-table==> [0.0, 0, 0, 0]
```

In []: