LAPORAN TUGAS BESAR 3 MATA KULIAH MACHINE LEARNING

Nama : Muhammad Ferianda Satya

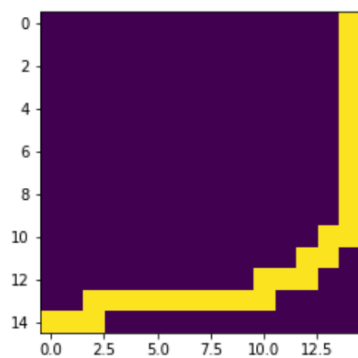Kelas : IF 40-04

NIM : 13011644400

1. Analisa Masalah

Menemukan optimum policy untuk menentukan jalur dari start sampai finish pada suatu labirin berbentuk grid berukuran 10x10 menggunakan Q-Learning.

-1	-2	-3	-2	-3	-3	-4	-1	-4	-2	-1	-2	-3	-3	500
-1	-3	-1	-2	-4	-1	-4	-1	-4	-2	-4	-2	-2	-2	-1
-4	-2	-1	-4	-2	-1	-2	-4	-2	-3	-2	-1	-2	-4	-4
-4	-2	-4	-1	-3	-2	-3	-2	-4	-2	-4	-1	-2	-4	-2
-4	-2	-2	-3	-2	-3	-1	-1	-4	-2	-1	-3	-4	-2	-4
-4	-3	-3	-4	-2	-3	-4	-2	-2	-1	-1	-2	-1	-2	-1
-2	-3	-2	-1	-1	-3	-2	-1	-4	-3	-1	-1	-2	-3	-3
-3	-1	-1	-4	-4	-3	-1	-2	-3	-1	-1	-4	-4	-3	-3
-3	-1	-4	-2	-3	-3	-1	-4	-4	-4	-2	-2	-2	-2	-1
-3	-4	-4	-2	-3	-4	-3	-3	-2	-2	-3	-4	-3	-4	-1
-3	-4	-1	-1	-1	-4	-4	-4	-4	-1	-2	-4	-2	-2	-1
-1	-3	-3	-3	-3	-3	-3	-3	-4	-1	-2	-4	-1	-2	-4
-2	-2	-1	-2	-2	-2	-4	-3	-1	-4	-1	-4	-2	-2	-2
-2	-1	-3	-1	-4	-4	-1	-3	-3	-1	-1	-2	-3	-4	-3
-2	-2	-1	-4	-4	-4	-2	-2	-3	-1	-2	-2	-1	-1	-3

2. Result

```
Step :  ['E', 'E', 'N', 'E', 'E', 'E', 'E', 'E', 'E', 'E', 'E', 'N', 'E', 'E', 'N', 'E', 'N',
'E', 'N', 'N', 'N', 'N', 'N', 'N', 'N', 'N', 'N', 'N']
Reward :  443.0
```


Haslil perhitungan tersebut menggunakan codingan yang dipubish pada akun github :

Filename: Document1
Directory:
Template: /Users/mfsatya/Library/Group
    Containers/UBF8T346G9.Office/User
    Content.localized/Templates.localized/Normal.dotm
Title:
Subject:
Author: Microsoft Office User
Keywords:
Comments:
Creation Date: 4/28/19 8:15:00 PM
Change Number: 1
Last Saved On: 4/28/19 8:27:00 PM
Last Saved By: Microsoft Office User
Total Editing Time: 1 Minute
Last Printed On: 4/28/19 8:27:00 PM
As of Last Complete Printing
    Number of Pages: 2
    Number of Words: 55
    Number of Characters: 339 (approx.)