KTH- ID 2209 – Distributed Artificial Intelligence and Autonomous Agents

Course Coordinator: Mihhail Matskin
Teacher Assistants: Shatha Jaradat & Lorenzo Corneo

HOMEWORK 2 – Group 6: Alessio Russo, Mumtaz Fatima

Task 3:

Payoff matrix
Suppositions:
For Artist Management Agent:
1. Selling low quality product gives maximum payoff.
<div align="center">Amax</div>

2. Selling high quality product gives low payoff as compare to selling low quality product.
<div align="center">Amax>Alow</div>

3. Not selling low quality product gives low payoff as compare to selling both high and low quality product.
<div align="center">Amax>Alow>Alower</div>

4. Not selling high quality product gives lowest payoff (because of production costs).
<div align="center">Amax>Alow>Alower>Amin</div>

For Profiler Agent:
1. Buying high quality product gives maximum payoff.
<div align="center">Pmax</div>

2. Not buying high quality product gives less payoff.
<div align="center">Pmax>Plow</div>

3. Not buying low quality product gives less payoff.
<div align="center">Pmax>Plow</div>

4. Buying low quality product gives minimum payoff.
<div align="center">Pmax>Plow>Pmin</div>

<div align="center">

Artist Management Agent

</div>

Profiler Agent	High quality	Low quality
Buying	(Pmax,Alow)	(Pmin,Amax)

Not buying	(Plow,Amin)	(Plow,Alower)

Nash equilibrium:

(Plow, Alower) is Nash equilibrium.