MIW (eng) – mini-project 1 (25.03.20)

Hidden Markov Chains

1. Play 30 games of "Rock, Paper, Scissors". Note down the results. Let payout be **1** for a winning game, **-1** for losing a game, **0** for a tie.

Player A																														
Player B																														
Payout																														

2. Draw the HMM diagram with 3 hidden states **Rock**, **Paper** and **Scissors** and transition probabilities between these states. Outputs (emissions) will be payouts **0**, **-1** and **1**.

3. Give a transition probability matrix and an emission probability matrix.

4. Write a program and run a simulation of the game.

Ways to submit the project:

1. Create a Jupyter Notebook in https://colab.research.google.com/ and share it with a link and send the link to ihalych@pja.edu.pl. This way I can access it any time before the deadline and give you grades having just sharable links.
2. You can also submit your **.py** files if you worked in PyCharm or any other IDE. The choice is up to you.

Deadline rules:

1. By 25.03.20 – max amount of points is 10
2. By 01.04.20 – max amount of points is 10
3. By 08.04.20 – max amount of points is 5
4. Later – 0 points