## ASSIGNMENT - 1

## MACHINE LEARNING

QUESTION-1

Initial Money = 1000\$

Play until you run out of money or for 10 games.

Run simulations for 10 nounds.

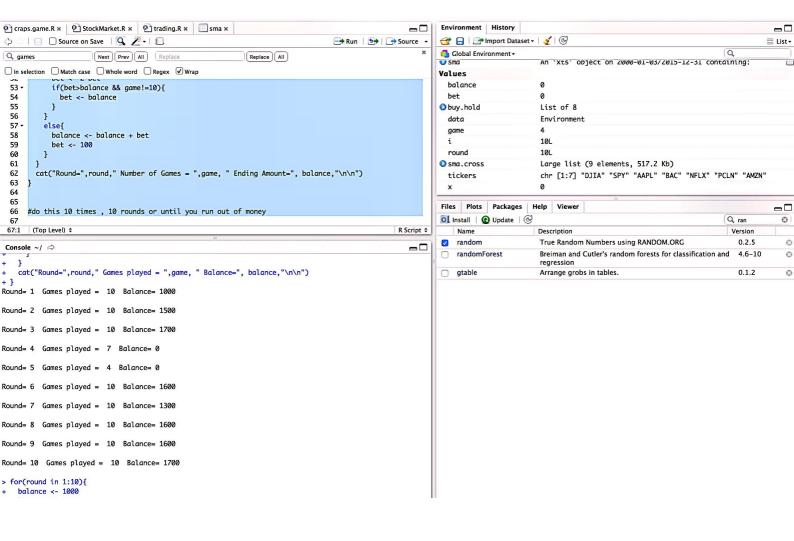
RESULTS OF SIMULATIONS:

Round	ENDING AMOUNT	Number OF	GAMES
A Postar Ashir	1000	10	
2	1500	10	A BACK
3	1700	10	11/1/
4	0	10 1 200 4 10,	roh 341
5	0	(4 = 10,041 +0)	amehao
6	1600	10	
7	1300	(0	
8 34 8 200 1	2001600	11.635, 31.10	a to get
9	1600	10	
10	1700	10.	BILL

The persons hypothesis that he claims that can beat any game of chance is false as in the above simulation we see the player lossing in nound 4 & 5.

On multiple further simulations I observed that the winning rate of 80% (in the first simulation 10 rounds), winning rate of 80% (in the first simulation 10 rounds), wins, it for each simulation).

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