**Name:** Anandan Sundar **NET ID:** axs156730

**ASSIGNMENT 1 - REPORT**

**Question 1**

**Martingale System**

The code for martingale system is present in craps.games.R and soln.R. Result obtained after 10 such rounds are as follows:

|  |  |  |
| --- | --- | --- |
| **Round** | **Ending Amount** | **Number of games played** |
| 1 | 0 | 10 |
| 2 | 0 | 10 |
| 3 | 1500 | 10 |
| 4 | 0 | 4 |
| 5 | 600 | 10 |
| 6 | 1100 | 10 |
| 7 | 900 | 10 |
| 8 | 1200 | 10 |
| 9 | 1500 | 10 |
| 10 | 0 | 7 |
| 11 | 1200 | 10 |

From the above table we can observe that during each and every round, player does not get conclusive profit. Hence the *system does not work* for this game of craps.