**I. Pen-and-paper**



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Y1 | Y2 | Y3 | Output | Predicted |
| X9 | 2 | 0 | 0 | 2 | 2.4536069711 |
| X10 | 1 | 2 | 1 | 4 | 2.2815859319 |

RMSE=1.25672316



IG=[0.23869281 0.21576155 0. ]

Chosen var -> Y1

If y1=2 -> 1

If y101 -> 0

If Y1=0; Decision made by Y3 (tied between Y2 and Y3) (IG(Y1=0) = [0. 0. 0.])

If Y3=0 -> 0

If Y3=1 -> 1



**II. Programming and critical analysis**

1. Answer 5
2. Answer 6
3. Answer 7
4. Answer 8

**III. APPENDIX**

Paste your programming code here using Consolas 9pt or 10pt.

Use **highlighting** or colored text to facilitate the analysis by your faculty hosts.

**END**