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a) It was difficult to decide how to organize the code, so I just mapped out an outline on paper first. It was also difficult to decide how to organize the if-else statements, so I just mapped the tree on paper first.

b)

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| --- | --- | --- |
| Input | Output | Reason for test |
| (, Male, 40, 180, 60) | --- You must enter valid name. | Blank name |
| (Alfred, male, 40, 180, 60) | --- You must enter valid gender. | Misspelled gender |
| (Alfred, Male, -10, 180, 60) | --- You must enter valid age. | Negative age |
| (Alfred, Male, 40, -10, 60) | --- You must enter valid weight. | Negative weight |
| (Alfred, Male, 40, 180, -10) | --- You must enter valid height. | Negative height |
| (Alfred, Male, 40, 180, 60) | --- Yes, Alfred you can donate blood. | Good everything |
| (1, Male, 40, 180, 60) | --- Yes, 1 you can donate blood. | Number for name |
| ( , Male, 40, 180, 60) | --- Yes, you can donate blood. | Space for name |
| (Alfred, Male, 9999, 999, 99) | --- Yes, Alfred you can donate blood. | Impossible statistics |