Main Loop Code

1. The void loop should read the distance of the person who is watching the TV and perform these particular functions:

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| Distance | Function | Output |
| 0-50 cm | Rangefinder detects person 0-50 cm away from TV | Turn on TV |
| 51-200 cm | Rangefinder detects person 51-200cm away from TV | Decrease volume and brightness less than 50% |
| 201-400 cm | Rangefinder detects person 201-400cm away from TV | Volume and brightness to 50% |
| 401-799 cm | Rangefinder detects person 401-799cm away from TV | Maximum volume and brightness |
| 800 cm | Rangefinder detects person 800cm away from TV | Turn off TV |
| Nothing | Rangefinder detects person Nothing | Turn off TV |