Test Plan

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| Test | Prerequisites | Expected Results | Actual Results |
| Initialization | Code compiles;  Code loaded onto Audrino;  Arduino supplied with power | LCD displays initialization message | LCD displays initialization message |
| Get current location | Code compiled and loaded onto Arduino;  Select “Navigate” option | Displays current coordinates in correct format (XXX XX XX.X) | LCD reads 041 25 41.5 |
| Input latitude | Code compiled and loaded onto Arduino;  Select “Latitude” option | Can adjust every digit individually;  Can adjust hemispheres from (+) to (-)  Able to return back to main menu by selecting “Done’ | Can adjust every digit individually;  Can adjust hemispheres from (+) to (-)  Able to return back to main menu by selecting “Done’ |
| Input longitude | Code compiled and loaded onto Arduino;  Select “longitude” option | Can adjust every digit individually;  Can adjust hemispheres from (+) to (-)  Able to return back to main menu by selecting “Done’ | Can adjust every digit individually;  Can adjust hemispheres from (+) to (-)  Able to return back to main menu by selecting “Done’ |
| Calculate distance between given point and current location | Code compiled and loaded onto Arduino;  Input latitude and longitude;  Select “Navigate” and go down one option | LCD reads distance to target | LCD reads 312.53 |