Testing: EnergyCalc

J Jandrell

23 May 2022

Module tested	energyCalc		
Version	v0.1		
File Path	CODE/Energy_Calculations		
Last written by	K Ngwenya		
Tested by	J. Jandrell		

## 1 Results

No.	Input	Expected output	Output given	Punch list
1	distanceTraveled(1320, 125)	65		
2	distance Travled (11987, 10241)	1746		
3	distanceTraveled(1027, 1027)	0		
4	fuelUsed(142, 8.2)	≃11.644	12	2
5	fuelUsed(301, 6.3)	$\simeq 18.963$	19	2

Note: if a cell is left blank that implies that not issues occurred during the test and thus not comment or action is required.

# 2 Punch list

No.	Description	resolved	Developer
1	Function name 'energyCalc' does not make sense	22-23-05	J Jandrell
	of a funtion which determines fuel usage. Rename		
	to 'fuelUsage'		
2	Faliure: significant calcualtion error due to pre-	22-05-23	J Jandrell
	mature rounding and loss of sig-figs.		

## 3 Concerns and future considerations

### 3.1 No defensive coding

The code does not have any protection against illogical user inputs, negative distances or other issues that could arise from human error. Will we check for these errors before we reach this point?

## 3.2 Energy calculation

Now that we have a way of finding distance energy can be found using the unit converter.