

Data analysis - Advanced Analysis

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Function main():

Input	Processing	Output
	data menu_range menu_type menu_selection	

Function print_menu_error(data)

Input	Processing	Output
data		

Function display_menu()

Input	Processing	Output

Function input_and_validate(menu_type, menu_range)

Input	Processing	Output
menu_type menu_range prompt	valid_input	menu_input

Function load_data()

Input	Processing	Output
prompt	get_filename	data

Function select from submenu(data)

Input	Processing	Output
data	columns menu_type menu_range	metric_selection

Function analyse_data(data)

Input	Processing	Output
data	metric_choice values names count mean standard_dev standard_error	

Function display_stat_report(names, count, mean,
standard dev, standard error)

Input	Processing	Output
names count mean standard_dev standard_error		

Function visualise_data(data)

Input	Processing	Output
data	vis_menu_range menu_type plot_menu_range submenu_type vis_ser vis_choice plot_ser vis_name plot_type_choice	

Function display_vis_choices(visplot_ser, menu_type,
menu_range)

Input	Processing	Output
visplot_ser menu_type menu_range		input_choice

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Function create_plots(data, vis_choice, plot_type_choice,  
vis_name, vis_ser)
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Input	Processing	Output
data vis_choice plot_type_choice vis_name vis_ser		