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# By submitting this assignment, I agree to the following:
#   "Aggies do not lie, cheat, or steal, or tolerate those who do."
#   "I have not given or received any unauthorized aid on this assignment."
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# Section:      ENGR-102-569
# Assignment:   Lab 5a Activity 2
# Date:         28 SEPTEMBER 2021
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Variables:

age

sex

HDL

total_chl

smoker

systolic_BP

BP_med

points

risk

Steps:

Inputs

- Identify gender of participant
- Find age
- Find total cholesterol
- Determine if they smoke
- Find HDL cholesterol
- Find Systolic Blood pressure
- Determine if they're medicated

Make giant if/elif/else 'tree' to count points

Start with if male:

Nest age and age-related variables (nest the age-related variables in age and age in male)

Then add independent variables (nest in male)

Start with zero points, and after each step add the appropriate amount of points

Convert points to risk through more if/elif (nest in male)

Copy and paste entire list and change certain values for women.

Find total cholesterol

Determine if they smoke

Find HDL cholesterol

Find Systolic Blood pressure

Determine if they're medicated

Make giant if/elif/else 'tree' to count points

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Nest age and age-related variables (nest the age-related variables in age and age in male)

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Convert points to risk through more if/elif (nest in male)

Copy and paste entire list and change certain values for women.

Gender	Age	Total_C	Smoker	HDL_C	S_Blood_P	Medication	Output	Type
m	20	110	y	70	120	y	<1%	edge
m	22	130	y	60	85	n	<1%	edge
m	24	200	y	40	150	y	5%	typical
m	26	240	y	45	136	n	1%	typical
m	28	120	y	50	140	y	<1%	edge
m	30	150	y	75	167	n	1%	typical
m	32	190	y	35	111	y	<1%	edge
m	34	250	y	30	90	n	6%	typical
m	36	260	y	20	86	y	20%	typical
m	38	230	y	86	115	n	2%	typical
m	40	210	n	46	180	y	1%	typical
m	42	160	n	43	100	n	1%	typical
m	44	175	n	56	140	y	2%	typical
m	46	125	n	44	210	n	2%	typical
m	48	200	n	63	120	y	4%	typical
m	50	210	n	85	150	n	5%	typical
m	52	160	n	93	122	y	4%	typical
m	54	170	n	42	136	n	6%	typical
m	56	130	n	86	145	y	5%	typical
m	58	120	n	35	128	n	6%	typical
f	20	150	y	40	180	y	1%	typical
f	22	130	y	56	110	n	<1%	edge
f	24	110	y	80	120	y	<1%	edge
f	26	160	y	30	140	n	1%	typical
f	28	200	y	35	150	y	5%	typical
f	30	210	y	45	170	n	3%	typical
f	32	180	y	60	160	y	%1	typical
f	34	240	y	40	190	n	%6	typical
f	36	190	y	80	200	y	%3	typical
f	38	250	y	50	90	n	%5	typical
f	40	195	n	30	87	y	<1%	edge
f	42	126	n	55	160	n	<1%	edge
f	44	110	n	67	153	y	<1%	edge
f	46	100	n	82	178	n	<1%	edge
f	48	145	n	45	138	y	<1%	edge
f	50	185	n	34	140	n	2%	typical
f	52	165	n	78	126	y	1%	typical
f	54	130	n	82	154	n	<1%	edge
f	56	143	n	96	112	y	<1%	edge
f	58	212	n	68	110	n	1%	typical