Question1
Step1:

	mpg	cylinders	displacement	horsepower	weight	acceleration	model_year	origin
mpg	1.000000	-0.775396	-0.804203	-0.773453	-0.831741	0.420289	0.579267	0.563450
cylinders	-0.775396	1.000000	0.950721	0.841284	0.896017	-0.505419	-0.348746	-0.562543
displacement	-0.804203	0.950721	1.000000	0.895778	0.932824	-0.543684	-0.370164	-0.609409
horsepower	-0.773453	0.841284	0.895778	1.000000	0.862442	-0.686590	-0.413733	-0.452096
weight	-0.831741	0.896017	0.932824	0.862442	1.000000	-0.417457	-0.306564	-0.581024
acceleration	0.420289	-0.505419	-0.543684	-0.686590	-0.417457	1.000000	0.288137	0.205873
model_year	0.579267	-0.348746	-0.370164	-0.413733	-0.306564	0.288137	1.000000	0.180662
origin	0.563450	-0.562543	-0.609409	-0.452096	-0.581024	0.205873	0.180662	1.000000

Step2:

	pc1	pc2
0	543.692090	51.046890
1	737.597223	79.416262
2	478.223494	75.668525
3	473.659818	62.795232
4	488.921154	56.018148

Question2:

	Gender	Risk	RiskCategory
0	M	0.24	[0.24-0.73]
1	F	0.82	(0.73-0.99]
2	M	0.56	[0.24-0.73]
3	F	0.24	[0.11-0.24]
4	M	0.99	(0.73-0.99]
5	F	0.14	[0.11-0.24]
6	M	0.72	[0.24-0.73]
7	F	0.81	(0.73-0.99]
8	M	0.26	[0.24-0.73]
9	F	0.11	[0.11-0.24]
10	M	0.73	[0.24-0.73]
11	F	0.86	(0.73-0.99]