Give the shortest paths from E to
all other vertices using Dijkstra's algorithm. Your results must be shown in the table below.

From E	A	B	C	D	F	G	H	I
Step 1 at E	Inf	Inf	65 via E	33 via E	18 via E	23 via E	Inf	Inf
Step 2 from F	Inf	54 via F	60 via F	33 via E	18 via E	23 via E	42 via F	Inf
Step 3 from G	Inf	54 via F	60 via F	33 via E	18 via E	23 via E	42 via F	44 via G
Step 4 from D	45 via D	54 via F	37 via D	33 via E	18 via E	23 via E	42 via F	44 via G
Step 5 from C	45 via D	54 via F	37 via D	33 via E	18 via E	23 via E	42 via F	44 via G
Step 6 from H	45 via D	54 via F	37 via D	33 via E	18 via E	23 via E	42 via F	44 via G
Step 7 from I	45 via D	54 via F	37 via D	33 via E	18 via E	23 via E	42 via F	44 via G
Step 8 from A	45 via D	54 via F	37 via D	33 via E	18 via E	23 via E	42 via F	44 via G
Step 9 from B	45 via D	54 via F	37 via D	33 via E	18 via E	23 via E	42 via F	44 via G

The last line in your table gives the least cost to go from E to all other vertices. In the table below
show the actual path in the following format: E, Vertex_1, Vertex_2, etc.

E to A	E, D, A
E to B	E, F, B
E to C	E, D, C
E to D	E, D
E to F	E, F
E to G	E, G
E to H	E, F, H
E to I	E, G, I