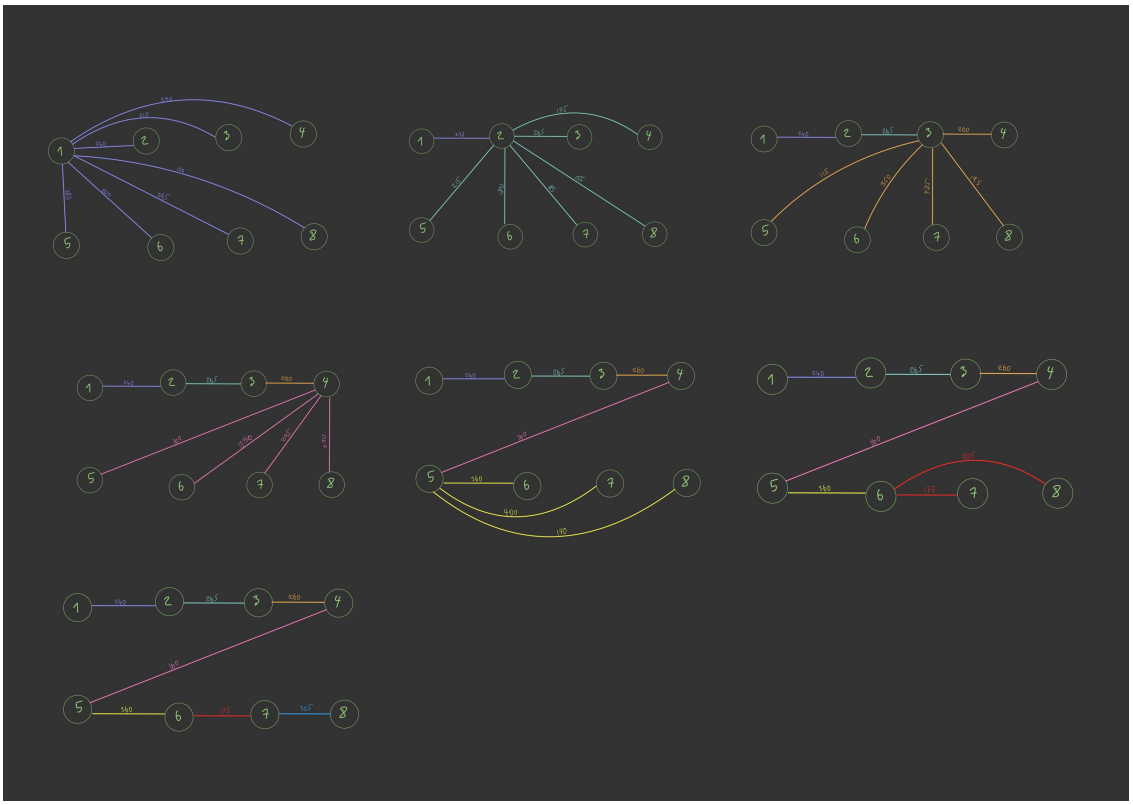
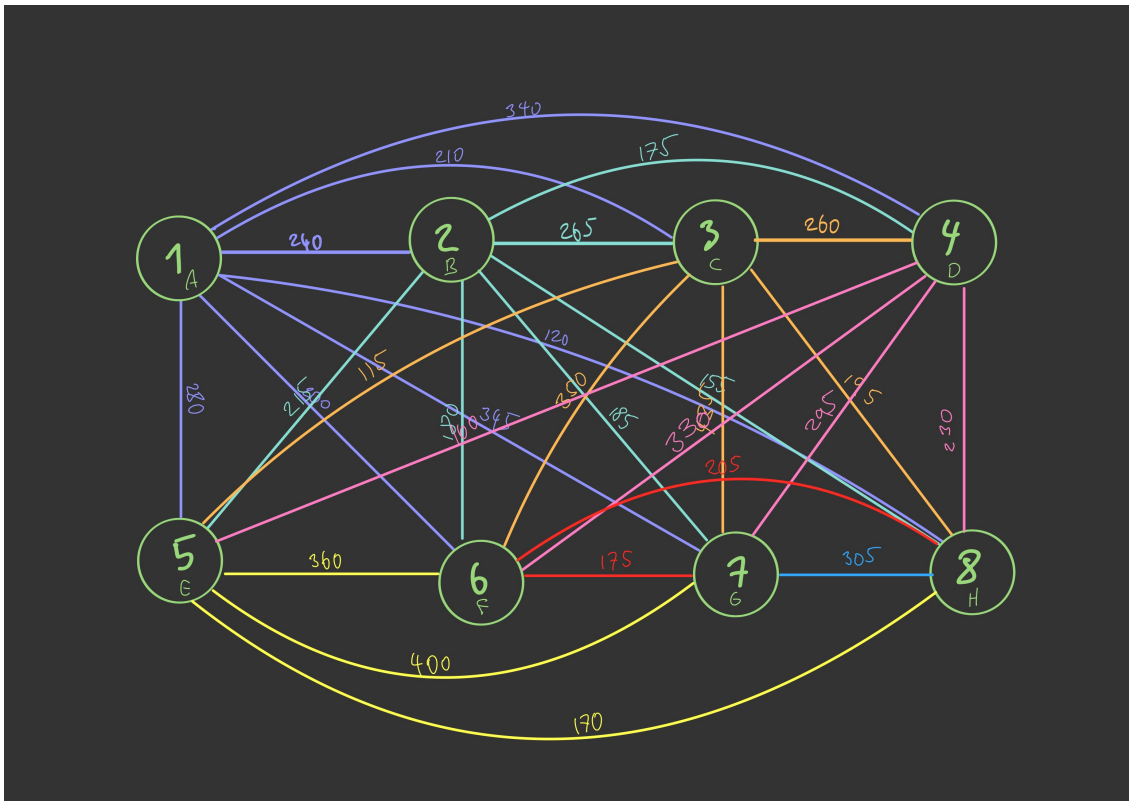
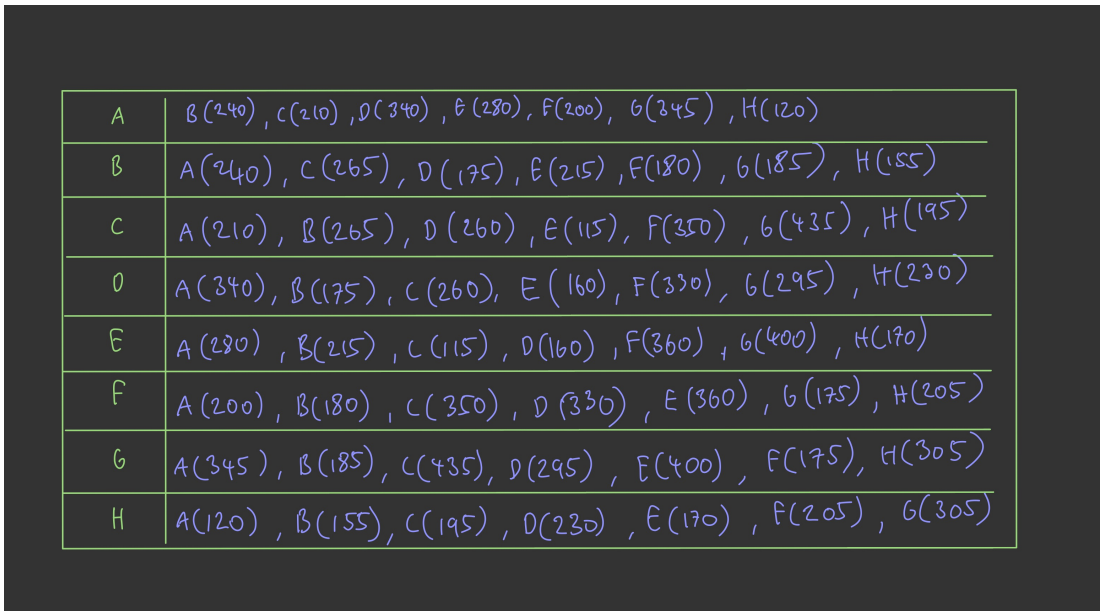
Prims Minimum Spanning Tree Step by Step

1. Looking at the data as a plot



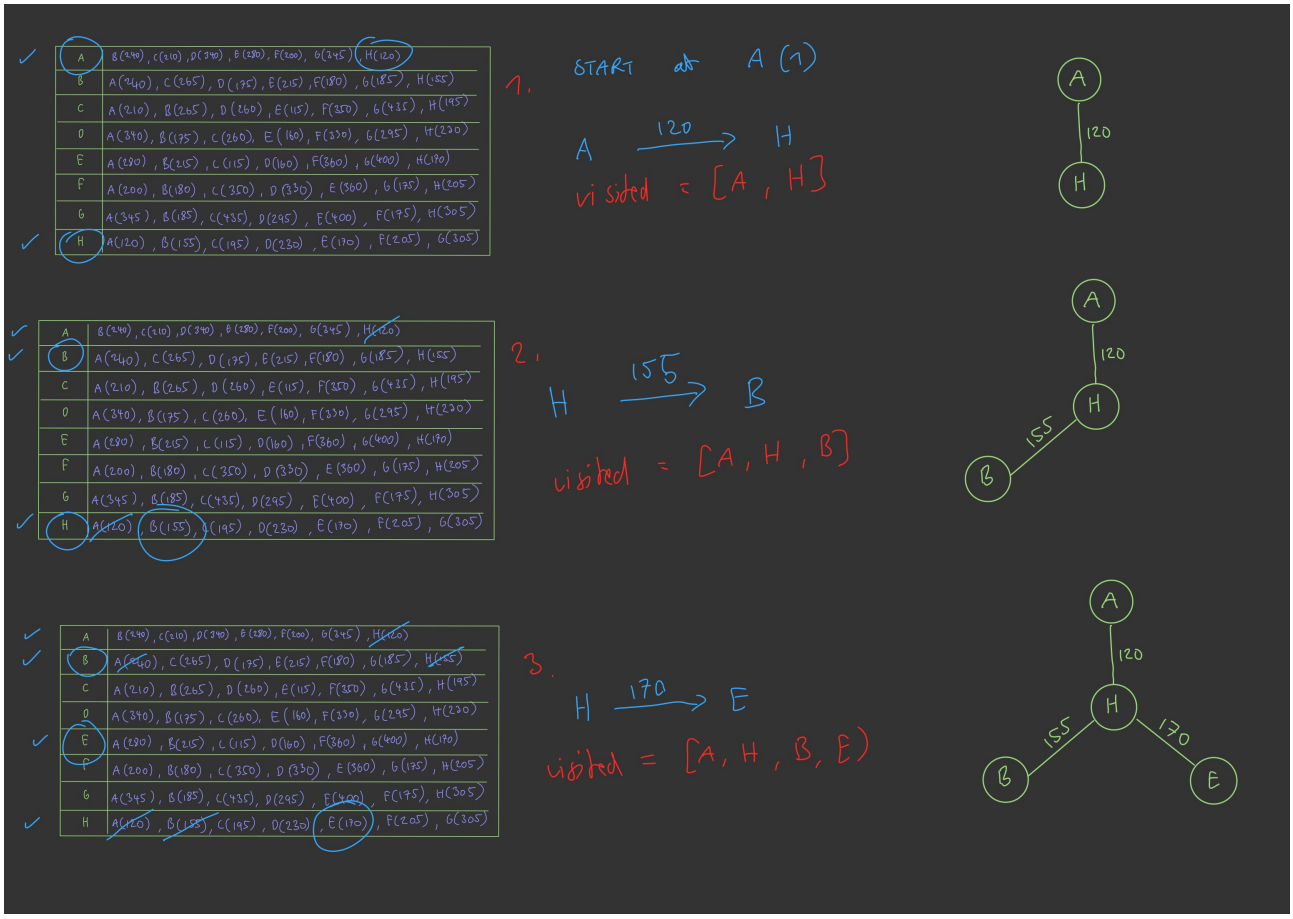


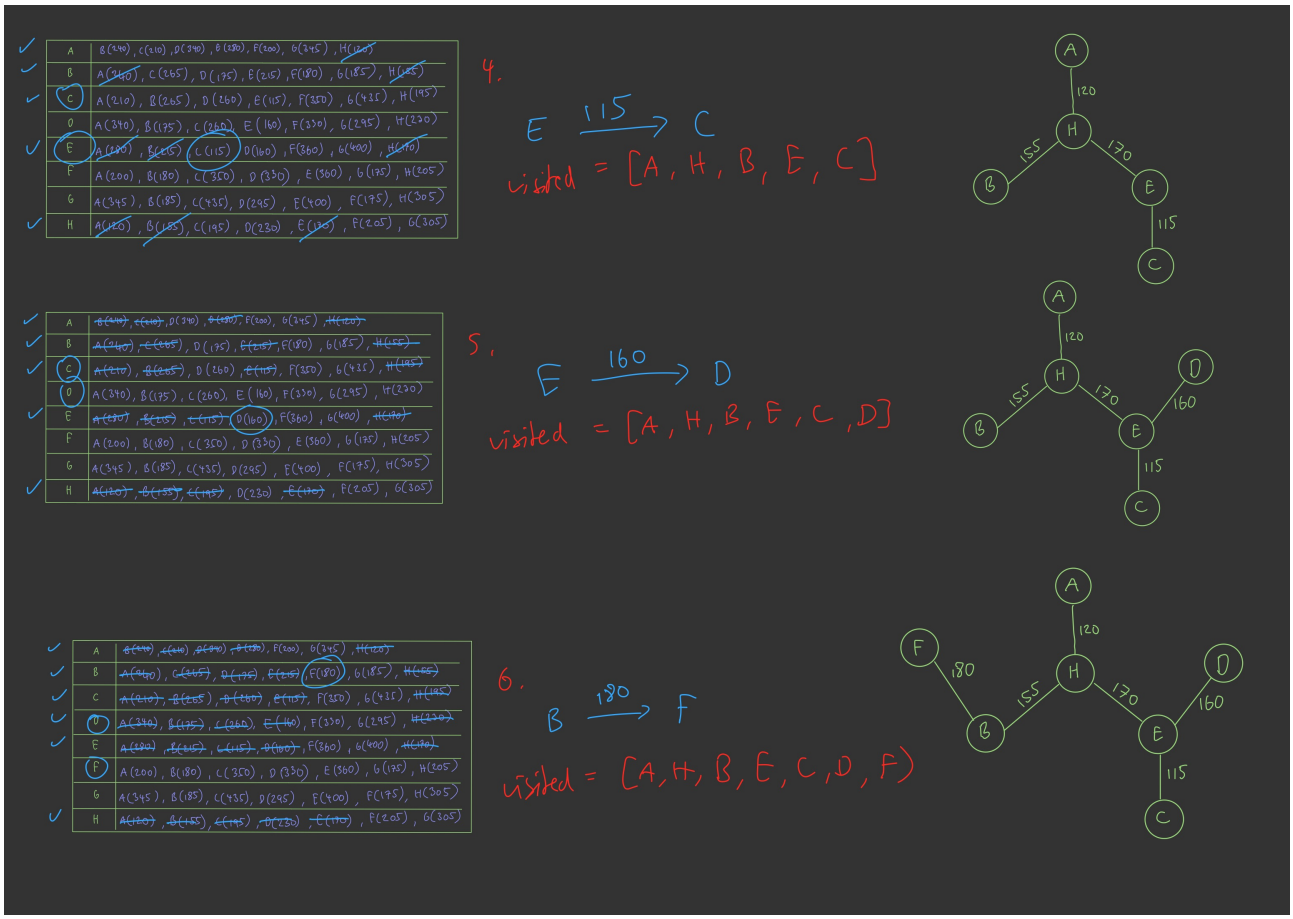
2. Use table instead as visualisation too complex (using letters A-H for numbers 1-8 respectively):



A	B(240), C(210), D(340), E(280), F(200), G(345), H(120)
B	A(240), C(265), D(175), E(215), F(180), G(185), H(155)
C	A(210), B(265), D(260), E(115), F(350), G(435), H(195)
D	A(340), B(175), C(260), E(160), F(330), G(295), H(230)
E	A(280), B(215), C(115), D(160), F(360), G(400), H(170)
F	A(200), B(180), C(350), D(330), E(360), G(175), H(205)
G	A(345), B(185), C(435), D(295), E(400), F(175), H(305)
H	A(120), B(155), C(195), D(230), E(170), F(205), G(305)

3. Follow these steps to find shortest possible connection each time, making sure not to create loops by adding obsolete edges:





The final Minimum Spanning Tree: