*Exercise 01*

 Using the method of building algorithm ﬁnd the bus impedance matrix for the network shown in Figure



 One-line diagram\_1 One-line diagram\_2 One-line diagram\_3

*Exercise 02*

Line from bus 1 to 3 with impedance Z13 = j 0.56 is removed, Using the method of building algorithm to determine the new bus impedance matrix.



*Exercise 03*

There is a line outage and the line from bus 1 to 2 with impedance Z12 = j 0.8 is removed. Using the method of building algorithm determine the new bus impedance matrix.



