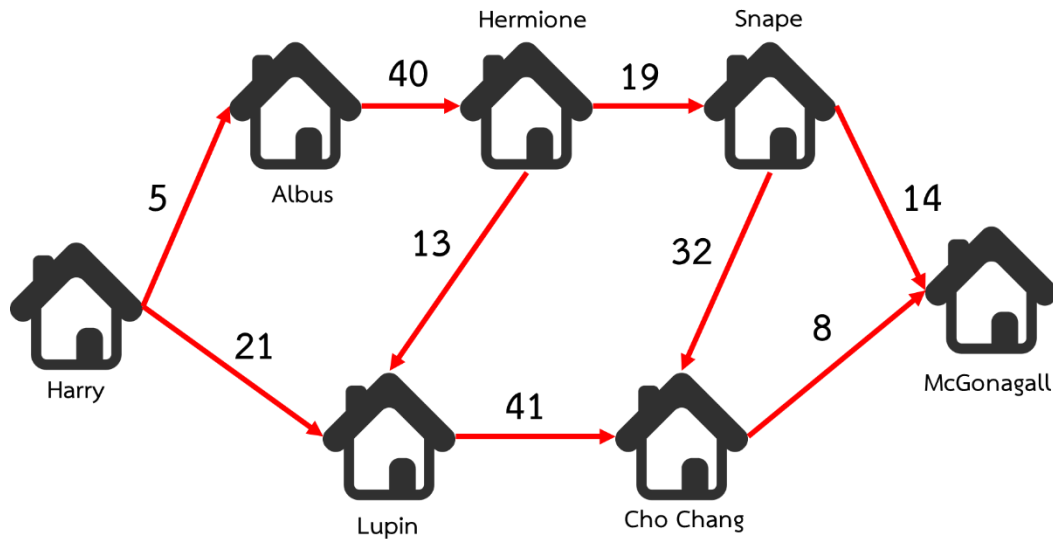


Assignment # 9: Shortest Path and MST

1. Given the graph below, provide your answer on the following questions.

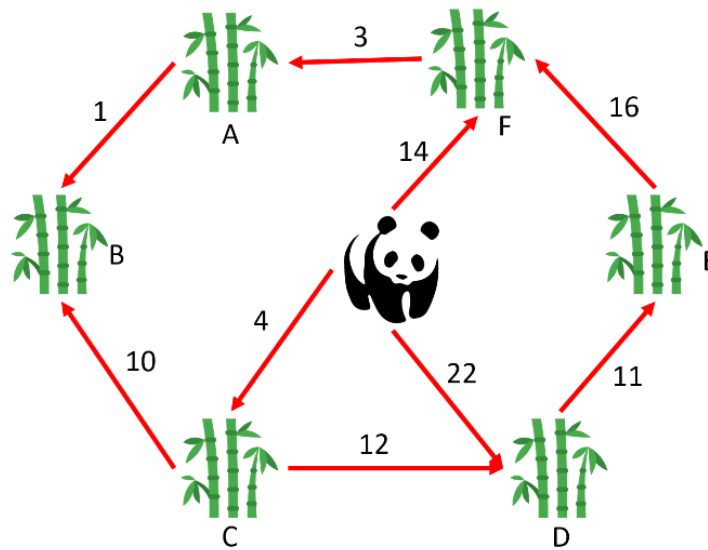


1.1 Write the shortest path (step-by-step) from node *Harry* and calculate the total weight with the distance between node *Harry* to the other nodes.

1.2 Write the MST from node *Harry* (step-by-step) to other nodes using Prim's algorithm.

1.3 Write the MST (step-by-step) to other nodes using Kruskal's algorithm.

2. Given the graph below, provide your answer on the following questions.



2.1 Write the shortest path (step-by-step) from node *Panda* and calculate the total weight with the distance between node *Panda* to the other nodes.

2.2 Write the MST from node *Panda* (step-by-step) to other nodes using Prim's algorithm.

2.3 Write the MST (step-by-step) to other nodes using Kruskal's algorithm.