CSCE2110 PROGRAM 3 EXAMPLE OUTPUT

node	add	NH				ADDED: NODE NH

node   add   NH   ADDED: NODE NH

node   add   NK   ADDED: NODE NK

node   add   NL   ADDED: NODE NL

node   add   NM   ADDED: NODE NM

node   add   NP   ADDED: NODE NP

node   add   NW   ADDED: NODE NW

node   search   NA   NODE NA: NOT FOUND

node   search   NW   NODE NW: FOUND

edge   add   NL   NK   S01   24   ADDED: EDGE NL NK NAME:S01 DIST: 24
       ADDED: EDGE NK NL NAME:s01 DIST:24

edge   add   NK   NH   S02   11   ADDED: EDGE NK NH NAME:S02 DIST: 11
       ADDED: EDGE NH NK NAME:s02 DIST: 11

edge   add   NP   NH   S03   13   ADDED: EDGE NP NH NAME:S03 DIST: 13
       ADDED: EDGE NH NP NAME:S03 DIST: 13

edge   add   NP   NM   S04   20   ADDED: EDGE NP NM NAME:S04 DIST: 20
       ADDED: EDGE NM NP NAME:S04 DIST:20

edge   add   NM   NW   S05   15   ADDED: EDGE NM NW NAME:S05 DIST: 15
       ADDED: EDGE NW NM NAME:S05 DIST:15

edge   add   NW   NL   S06   28   ADDED: EDGE NW NL NAME:S06 DIST: 28
       ADDED: EDGE NL NW NAME:S06 DIST:28

edge   add   NW   NP   S07   12   ADDED: EDGE NW NP NAME:S07 DIST: 12
       ADDED: EDGE NP NW NAME:S07 DIST: 12

print   matrix

	NH	NK	NL	NM	NP	NW
NH	-1	11	-1	-1	13	-1
NK	11	-1	24	-1	-1	-1
NL	-1	24	-1	-1	-1	28
NM	-1	-1	-1	-1	20	15
NP	13	-1	-1	20	-1	12
NW	-1	-1	28	15	12	-1

print   list

NH	NK(S02,11)	NP(S03,13)	
NK	NH(S02,11)	NL(S01,24)	
NL	NK(S01,24)	NW(S06,28)	
NM	NP(S04,20)	NW(S05,15)	
NP	NH(S03,13)	NM(S04,20)	NW(S07,12)
NW	NL(S06,28)	NM(S05,15)	NP(S07,12)

kruskal

NH	NK(S02,11)	NP(S03,13)
NK	NH(S02,11)	NL(S01,24)
NL	NK(S01,24)	
NM	NW(S05,15)	
NP	NH(S03,13)	NW(S07,12)
NW	NM(S05,15)	NP(S07,12)

node   delete   NL   DELETED: NODE NL
       EDGE AUTO-REMOVED BY NODE DELETION: NK NL
       EDGE AUTO-REMOVED BY NODE DELETION: NL NK
       EDGE AUTO-REMOVED BY NODE DELETION: NL NW
       EDGE AUTO-REMOVED BY NODE DELETION: NW NL

edge delete NL NK   *** ERROR *** EDGE DOES NOT EXIST FOR DELETION: NL NK

edge delete NH NP   DELETED: EDGE NH NP

kruskal   ERROR: Kruskal's Algorithm available only for UNDIRECTED graphs

print   list

NH	NK(S02,11)	
NK	NH(S02,11)	
NM	NP(S04,20)	NW(S05,15)
NP	NM(S04,20)	NW(S07,12)
NW	NM(S05,15)	NP(S07,12)