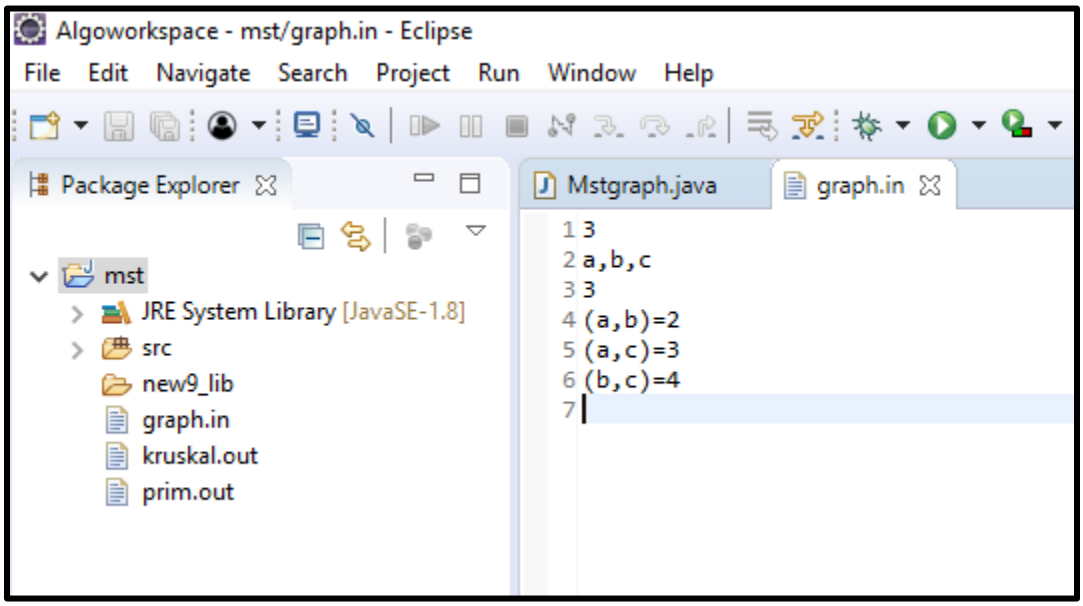
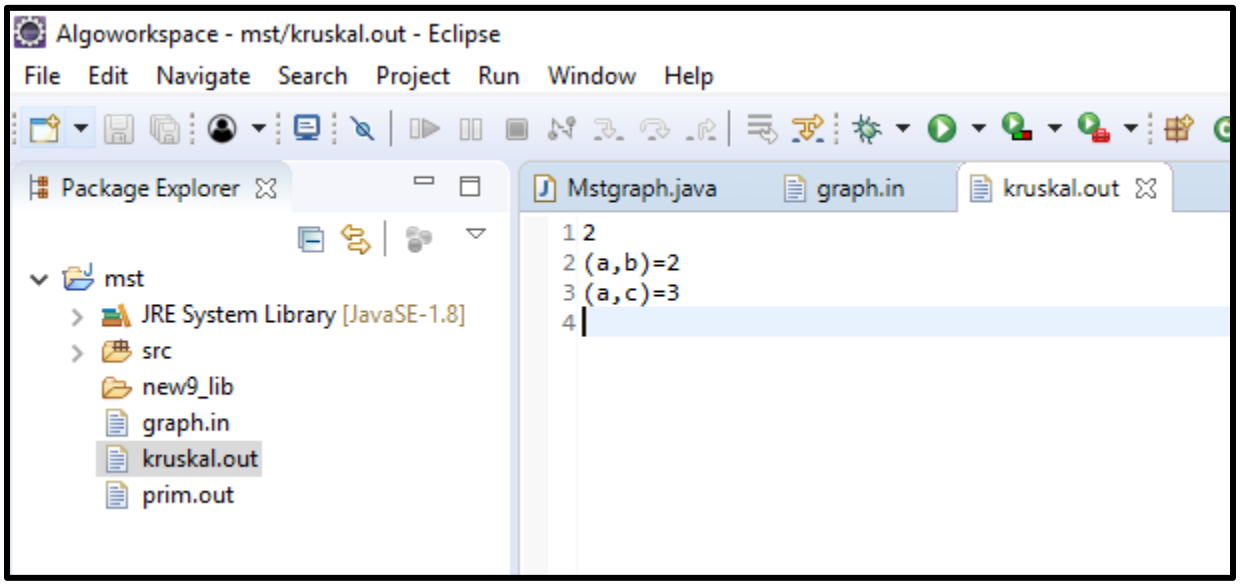
Sample Test cases:

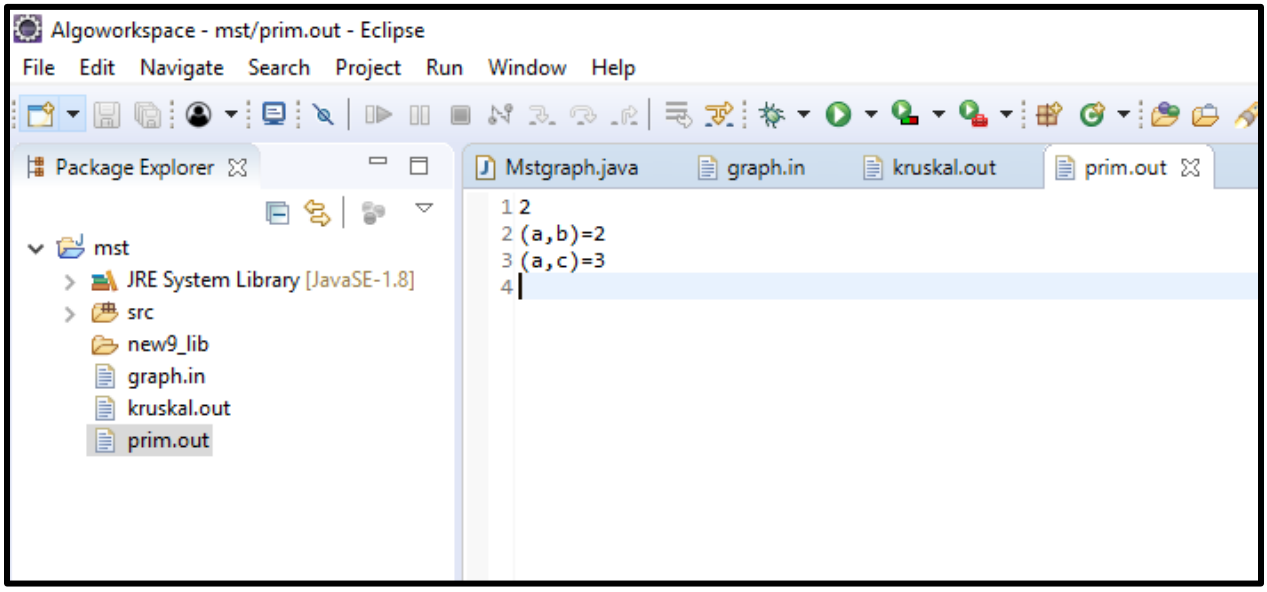
Test1: As per document

Input:



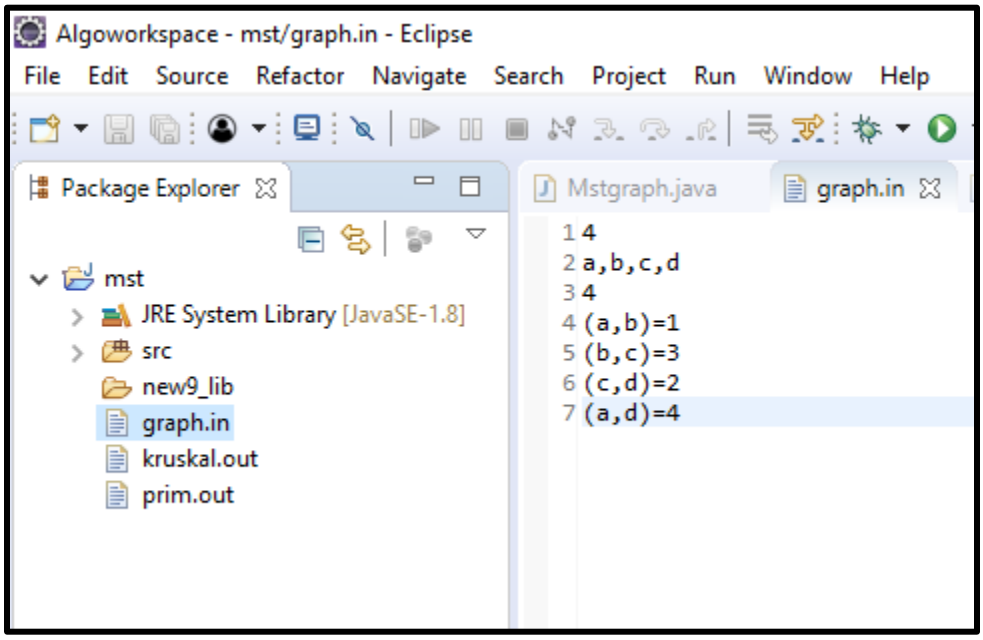
Output:


Algoworkspace - mst/kruskal.out - Eclipse
File Edit Navigate Search Project Run Window Help
Package Explorer
Mstgraph.java
graph.in
kruskal.out
1 2
2 (a,b)=2
3 (a,c)=3
4
mst
JRE System Library [JavaSE-1.8]
src
new9_lib
graph.in
kruskal.out
prim.out

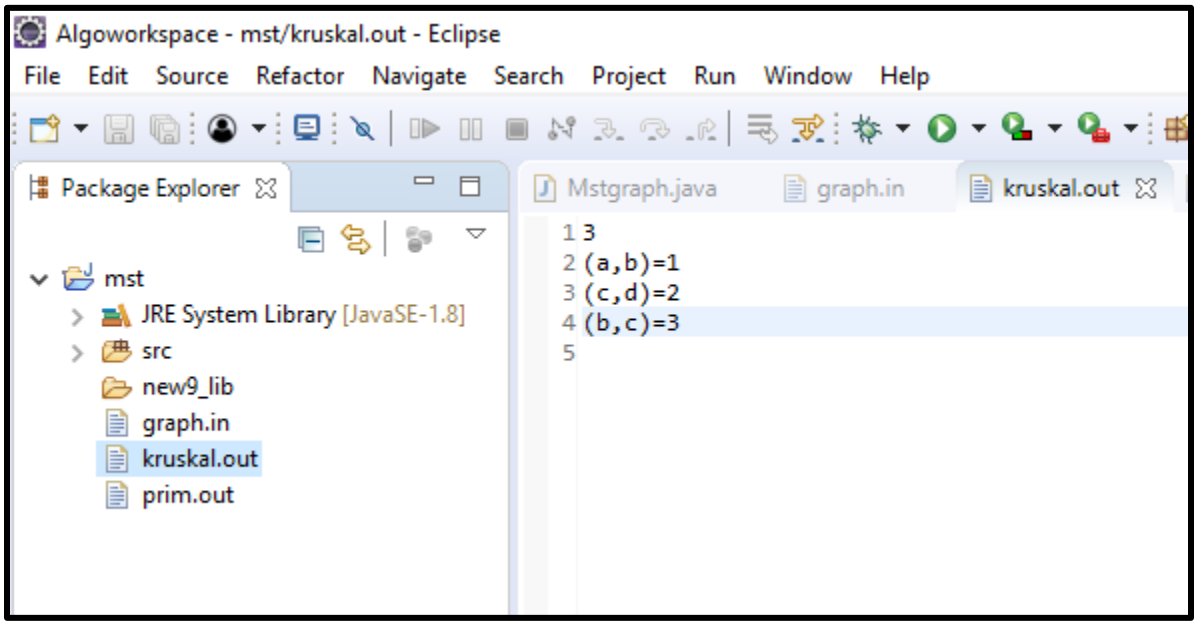

Algoworkspace - mst/prim.out - Eclipse
File Edit Navigate Search Project Run Window Help
Package Explorer
Mstgraph.java
graph.in
kruskal.out
prim.out
1 2
2 (a,b)=2
3 (a,c)=3
4
mst
JRE System Library [JavaSE-1.8]
src
new9_lib
graph.in
kruskal.out
prim.out

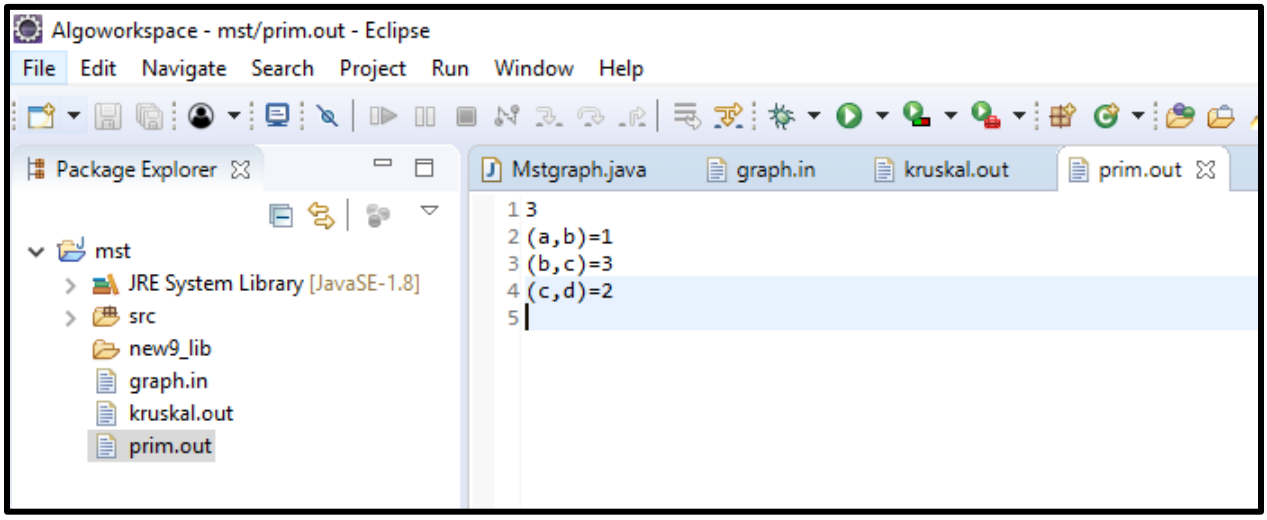
Test2: As per document

Input:



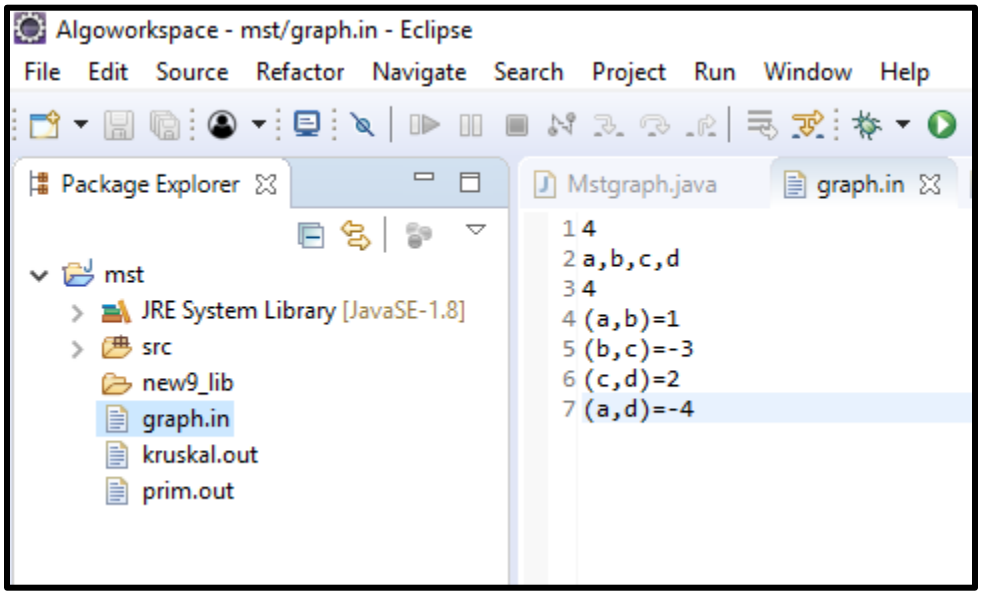
Output:


Algoworkspace - mst/kruskal.out - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Mstgraph.java
graph.in
kruskal.out
1 3
2 (a,b)=1
3 (c,d)=2
4 (b,c)=3
5
mst
JRE System Library [JavaSE-1.8]
src
new9_lib
graph.in
kruskal.out
prim.out

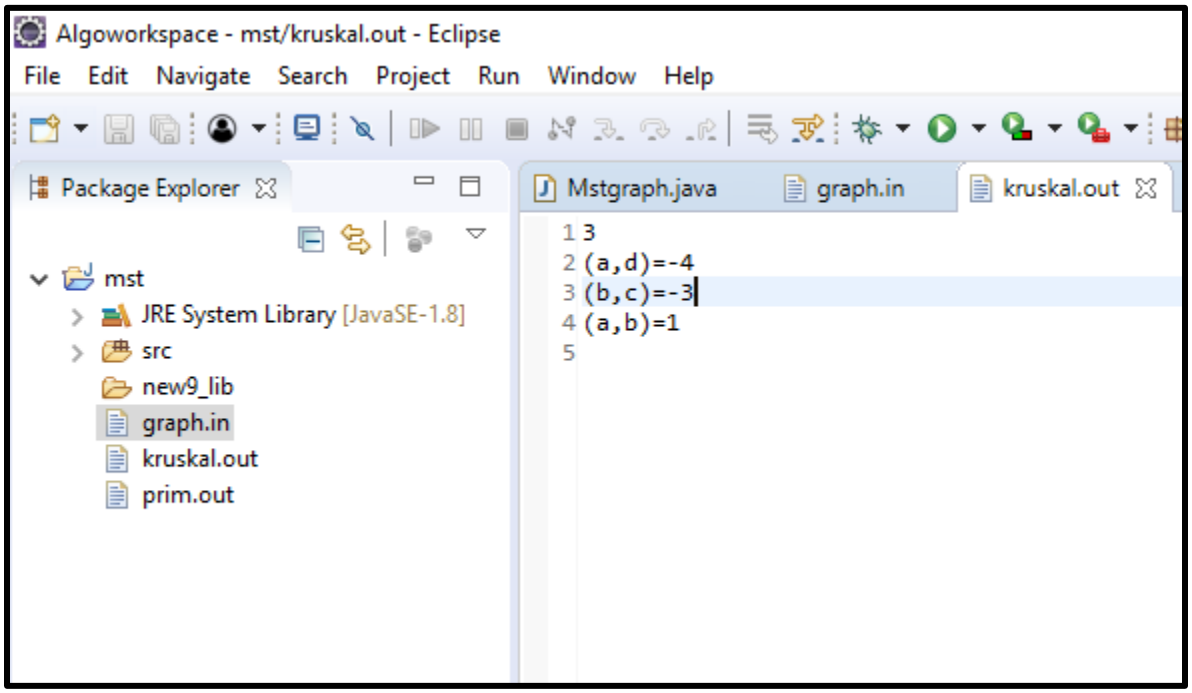

Algoworkspace - mst/prim.out - Eclipse
File Edit Navigate Search Project Run Window Help
Package Explorer
Mstgraph.java
graph.in
kruskal.out
prim.out
1 3
2 (a,b)=1
3 (b,c)=3
4 (c,d)=2
5
mst
JRE System Library [JavaSE-1.8]
src
new9_lib
graph.in
kruskal.out
prim.out

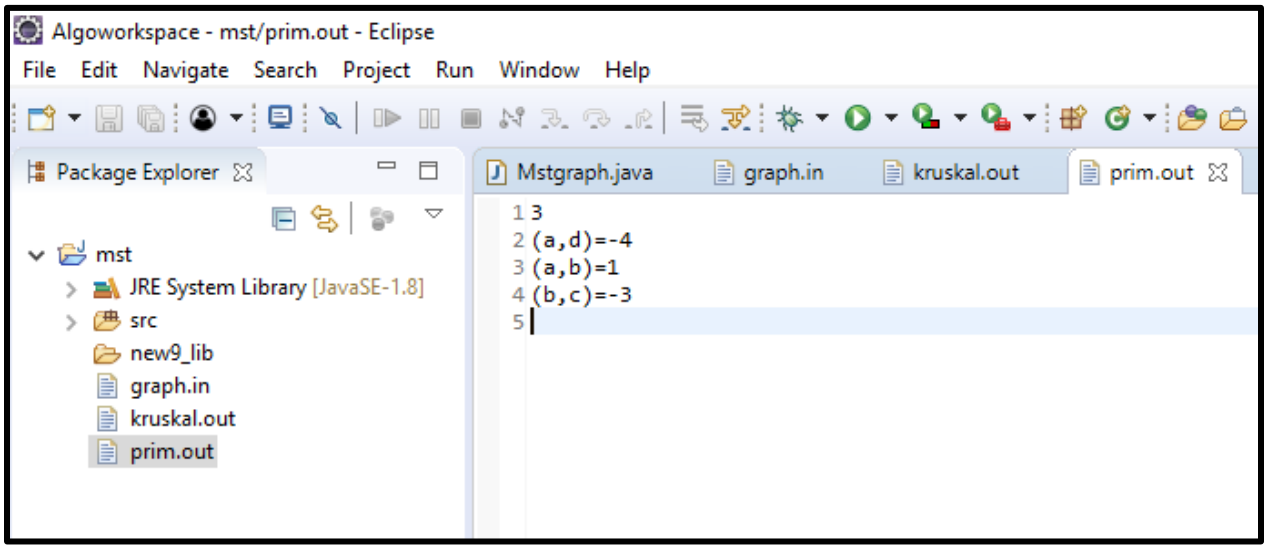
Test3: negative edge weight case

Input:



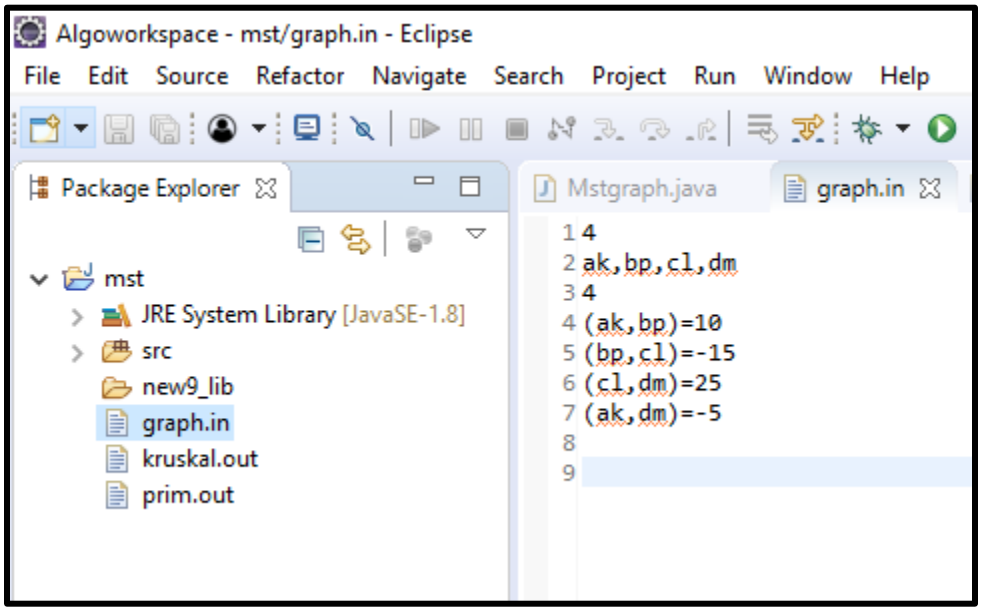
Output:


Algoworkspace - mst/kruskal.out - Eclipse
File Edit Navigate Search Project Run Window Help
Package Explorer
mst
JRE System Library [JavaSE-1.8]
src
new9_lib
graph.in
kruskal.out
prim.out
Mstgraph.java
graph.in
kruskal.out
1 3
2 (a,d)=-4
3 (b,c)=-3
4 (a,b)=1
5

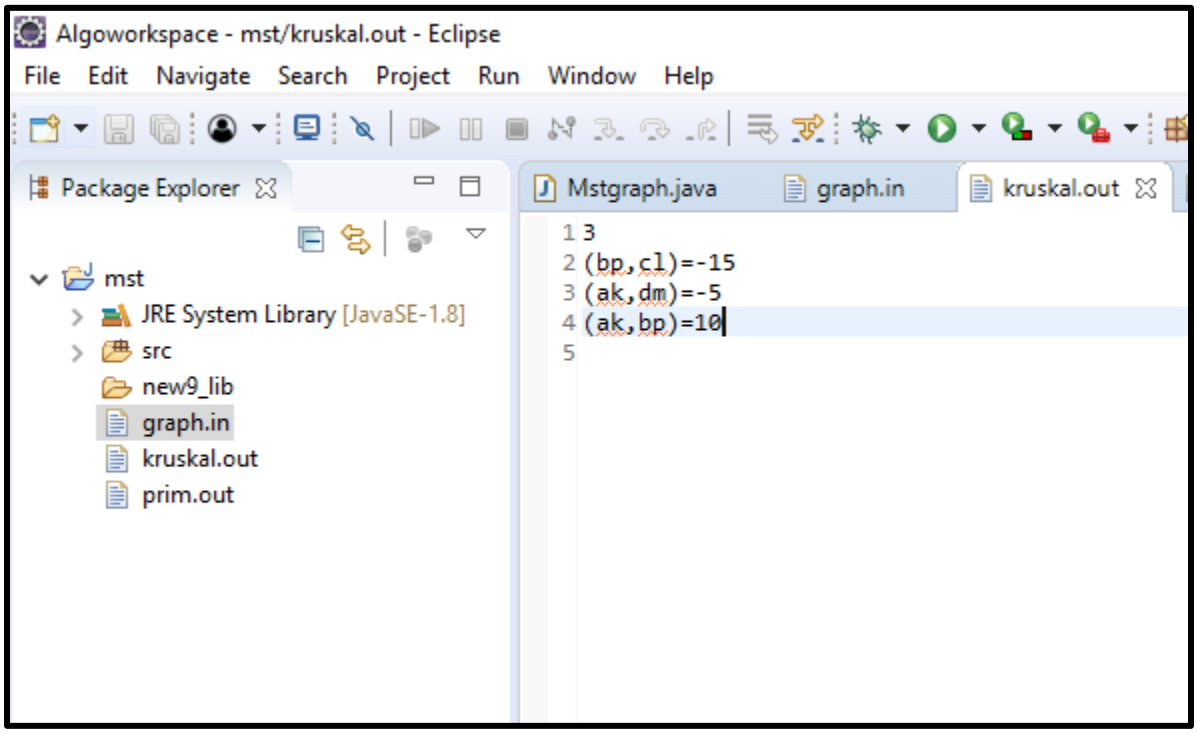

Algoworkspace - mst/prim.out - Eclipse
File Edit Navigate Search Project Run Window Help
Package Explorer
mst
JRE System Library [JavaSE-1.8]
src
new9_lib
graph.in
kruskal.out
prim.out
Mstgraph.java
graph.in
kruskal.out
prim.out
1 3
2 (a,d)=-4
3 (a,b)=1
4 (b,c)=-3
5

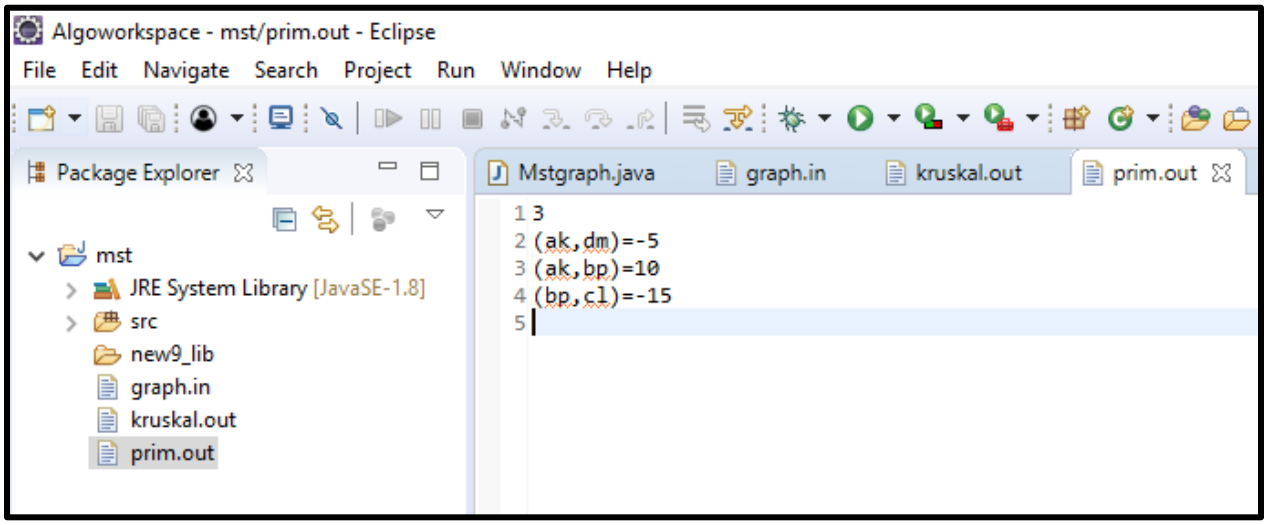
Test4: Variable names as abc,c,etc….

Input:



Output:


Algoworkspace - mst/kruskal.out - Eclipse
File Edit Navigate Search Project Run Window Help
Package Explorer
Mstgraph.java
graph.in
kruskal.out
1 3
2 (bp,cl)=-15
3 (ak,dm)=-5
4 (ak,bp)=10
5
mst
JRE System Library [JavaSE-1.8]
src
new9_lib
graph.in
kruskal.out
prim.out


Algoworkspace - mst/prim.out - Eclipse
File Edit Navigate Search Project Run Window Help
Package Explorer
Mstgraph.java
graph.in
kruskal.out
prim.out
1 3
2 (ak,dm)=-5
3 (ak,bp)=10
4 (bp,cl)=-15
5
mst
JRE System Library [JavaSE-1.8]
src
new9_lib
graph.in
kruskal.out
prim.out