

**COMP 2611 – Data Structures**  
**2023/2024 Semester 1**  
**Assignment 2**  
**Sample Output**

Command	Output
10 Graph.txt	Graph file opened successfully.
11 D	D is a vertex in the graph.
11 H	H is not a vertex in the graph.
12 A	The number of edges leaving A is 2.
12 B	The number of edges leaving B is 0.
13 D	Vertex / vertices adjacent to D: B E F G.
14 E G	There is an edge between E and G.
14 F D	There is no edge between F and D.
14 G E	There is no edge between G and E.
15 E	Vertex / vertices with an edge into E: C D F.
20 G E	Edge between G and E successfully inserted.
14 G E	There is an edge between G and E.
21 D F	Edge between D and F successfully deleted.
13 D	Vertex / vertices adjacent to D: B E G.
30	7 A B C D E F G A 2 D G B 0 C 2 E G D 3 B E G E 1 G F 3 B C E G 1 E

10 Graph2.txt	Graph file opened successfully.
11 G	G is not a vertex in the graph.
13 D	Vertex / vertices adjacent to D: A B.
14 B C	There is an edge between B and C.
14 A D	There is no edge between A and D.
14 A G	Error: G is not a vertex in the graph.
15 D	Vertex / vertices with an edge into D: C E.
20 F D	Edge between F and D successfully inserted.
15 D	Vertex / vertices with an edge into D: C E F.
30	6 A B C D E F A 2 B F B 2 C E C 1 D D 2 A B E 1 D F 2 D E
10 Graph3.txt	Error: Graph file (Graph3.txt) could not be opened.
11 A	Error: Graph is empty. Open graph file first.
30	Error: Graph is empty. Open graph file first.
99	End of program.