**Test cases for assignment 3 part 1 (console output):**

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

1

a. Diver name

b. Unload weight(kg;lb)

c. Originating city

d. Destination city

a

Enter the diver's name

Peter Kim

a. Diver name

b. Unload weight(kg;lb)

c. Originating city

d. Destination city

b

Enter the unload weight

330

Enter your measurement unit for this weight, kg for kilogram; lb for pound

kg

a. Diver name

b. Unload weight(kg;lb)

c. Originating city

d. Destination city

c

Enter the originating city

New York

a. Diver name

b. Unload weight(kg;lb)

c. Originating city

d. Destination city

d

Enter the destination city

Montreal

What would you like to do?

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7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

2

a. Enter package tracking number

23440

b. Enter package weight

32

Enter your measurement unit for this weight, oz for kilogram; lb for pound

oz

c. Package shipping cost is $1.6.

Want to load another one? Y/N

y

a. Enter package tracking number

23141

b. Enter package weight

40

Enter your measurement unit for this weight, oz for kilogram; lb for pound

lb

c. Package shipping cost is $80.0.

Want to load another one? Y/N

y

a. Enter package tracking number

43232

b. Enter package weight

80

Enter your measurement unit for this weight, oz for kilogram; lb for pound

lb

c. Package shipping cost is $200.0.

Want to load another one? Y/N

y

a. Enter package tracking number

21503

b. Enter package weight

100

Enter your measurement unit for this weight, oz for kilogram; lb for pound

lb

c. Package shipping cost is $300.0.

Want to load another one? Y/N

y

a. Enter package tracking number

21450

b. Enter package weight

40

Enter your measurement unit for this weight, oz for kilogram; lb for pound

oz

Problem with loading this package

This package exceeds the maximum weight. Here is its information:

Letter with weight 40.0 ounces. Tracking number is 21450.

Want to load another one? Y/N

y

a. Enter package tracking number

43901

b. Enter package weight

1000

Enter your measurement unit for this weight, oz for kilogram; lb for pound

oz

Problem with loading this package

This package exceeds the maximum weight. Here is its information

Box with weight 62.5 pounds. Tracking number is 43901.

Want to load another one? Y/N

y

a. Enter package tracking number

20402

b. Enter package weight

100

Enter your measurement unit for this weight, oz for kilogram; lb for pound

lb

Problem with loading this package

This package exceeds the maximum weight. Here is its information

Wooden crate with weight 100.0 pounds. Tracking number is 20402.

Want to load another one? Y/N

y

a. Enter package tracking number

21503

b. Enter package weight

2000

Enter your measurement unit for this weight, oz for kilogram; lb for pound

oz

Problem with loading this package

This package exceeds the maximum weight. Here is its information

Metal crate with weight 125.0 pounds. Tracking number is 21503.

Want to load another one? Y/N

y

a. Enter package tracking number

12957

b. Enter package weight

234

Enter your measurement unit for this weight, oz for kilogram; lb for pound

lb

Unable to decide the package type. This pack will not be loaded.

Here is its information

The tracking number for this unknown package is 12957. Its weight is 234.0lb.

Want to load another one? Y/N

n

==================================================

Finish loading the truck.

==================================================

What would you like to do?

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4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

4

====================================================================

The number of packages that have been loaded is 4

====================================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

5

====================================================================

The gross income earned by shipping of the cargo is $581.6

====================================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

6

====================================================================

The grossweight of the truck is 949.518 pounds, that is 430.6985394175814 kilograms.

====================================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

7

====================================================================

The truck has been diven by Peter Kim from New York to Montreal.

====================================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

3

==================================================

The truck has been unloaded

Here is the information of unloaded packages.

==================================================

Letter with weight 32.0 ounces. Tracking number is 23440.

Box with weight 40.0 pounds. Tracking number is 23141.

Wooden crate with weight 80.0 pounds. Tracking number is 43232.

Metal crate with weight 100.0 pounds. Tracking number is 21503.

==================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

0

====================================================================

Thank you for using this program. Have a nice day!

====================================================================

Test for the case that number of packages is bigger than maximum allowed number, **for simplicity, set the constant “public static final int MAX\_NUMBER” in class Truck to 5.**

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

1

a. Diver name

b. Unload weight(kg;lb)

c. Originating city

d. Destination city

a

Enter the diver's name

Peter King

a. Diver name

b. Unload weight(kg;lb)

c. Originating city

d. Destination city

b

Enter the unload weight

330

Enter your measurement unit for this weight, kg for kilogram; lb for pound

kg

a. Diver name

b. Unload weight(kg;lb)

c. Originating city

d. Destination city

c

Enter the originating city

Totonto

a. Diver name

b. Unload weight(kg;lb)

c. Originating city

d. Destination city

d

Enter the destination city

Montreal

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

2

a. Enter package tracking number

22230

b. Enter package weight

32

Enter your measurement unit for this weight, oz for kilogram; lb for pound

oz

c. Package shipping cost is $1.6.

Want to load another one? Y/N

y

a. Enter package tracking number

24241

b. Enter package weight

40

Enter your measurement unit for this weight, oz for kilogram; lb for pound

lb

c. Package shipping cost is $80.0.

Want to load another one? Y/N

y

a. Enter package tracking number

32142

b. Enter package weight

80

Enter your measurement unit for this weight, oz for kilogram; lb for pound

lb

c. Package shipping cost is $200.0.

Want to load another one? Y/N

y

a. Enter package tracking number

24993

b. Enter package weight

100

Enter your measurement unit for this weight, oz for kilogram; lb for pound

lb

c. Package shipping cost is $300.0.

Want to load another one? Y/N

y

a. Enter package tracking number

42253

b. Enter package weight

90

Enter your measurement unit for this weight, oz for kilogram; lb for pound

lb

c. Package shipping cost is $270.0.

Want to load another one? Y/N

y

a. Enter package tracking number

21410

b. Enter package weight

30

Enter your measurement unit for this weight, oz for kilogram; lb for pound

oz

c. Package shipping cost is $1.5.

Problem with loading this package

Truck has been fully loaded. This package is not loaded. Here is its information:

Letter with weight 30.0 ounces. Tracking number is 21410.

Want to load another one? Y/N

y

a. Enter package tracking number

21432

b. Enter package weight

60

Enter your measurement unit for this weight, oz for kilogram; lb for pound

lb

c. Package shipping cost is $150.0.

Problem with loading this package

Truck has been fully loaded. This package is not loaded. Here is its information

Wooden crate with weight 60.0 pounds. Tracking number is 21432.

Want to load another one? Y/N

n

==================================================

Finish loading the truck.

==================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

4

====================================================================

The number of packages that have been loaded is 5

====================================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

5

====================================================================

The gross income earned by shipping of the cargo is $851.6

====================================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

6

====================================================================

The grossweight of the truck is 1039.518 pounds, that is 471.5222716138982 kilograms.

====================================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

7

====================================================================

The truck has been diven by Peter King from Totonto to Montreal.

====================================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

3

==================================================

The truck has been unloaded

Here is the information of unloaded packages.

==================================================

Letter with weight 32.0 ounces. Tracking number is 22230.

Box with weight 40.0 pounds. Tracking number is 24241.

Wooden crate with weight 80.0 pounds. Tracking number is 32142.

Metal crate with weight 100.0 pounds. Tracking number is 24993.

Metal crate with weight 90.0 pounds. Tracking number is 42253.

==================================================

What would you like to do?

1. Start a cargo

2. Load the truck with packages

3. Unload a package

4. The number of packages loaded

5. The gross income earned by shipping of the cargo

6. Weight the truck (after it has been completely loaded

7. Drive the truck to destination

0. To quit

Please enter your choice and press <Enter>

0

====================================================================

Thank you for using this program. Have a nice day!

====================================================================