# Function Description

**Function Name:** input

**Parameter List: struct PackageInf\* pkg**

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| Parameter Name | Type | Description |
| Pkg | PackageInf\* | Pointer of type PackageInf to accept an object instance of type PackageInf. A struct PackageInf holds the following data: weight, box size, destination |
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**Returns:** no returns, void

**Description:** This function maintains cohesion and low coupling of the project. The focus is to get user input by using the system heather of stdio.h. The user inputs the data into local variables: weight, size, destination and valid (acts as a bool type). After each input is complete, it is then validated by another function for the specific variable respectively. These include: validatePackageWeight for weight input, validatePackageBox for size input and validateDestination for destination input.

Once all values are correct, the parameter pkg is assigned to the correct values respectively.

The ship on details are also outputted onto the console. This information is related to the shortest route line, available truck and any diversions or no diversions.

The function ONLY exits when the input “0 0 x” is received. This triggers a change in variable valid to be assigned 0 which ends the loop.