



Desk: Form : gather information about desk and display quote information

quote: variable for sum of prices of input values

form input value of customerFirstName type of String/text required

form input value of CustomerLastName type of String/text required

form input value of DeskSizeWidth type of number (min 24 - max 96) required

form input value of DeskSizeDepth type of number (min 12 - max 48) required

form input value of numberOfDrawers type of select with option vaules of (0-7) required *default 0

form input value of deskSurfaceMaterial type of select input with option values of (laminate, oak, rosewood, veneer, pine) required

form input value of rushOrderOptions type of select input with option of(3, 5, 7, 14 days)

form if invalid input then prompt for valid input else addPrices, and display the quote

searchQuote button will search quotes in quoteList like deskSurfaceMaterial if no results display "quote not found" else display searchResults

addQuote button will append a quote to quoteList.

viewAllQuotes button if empty will display "no quotes found" else will display the quoteList

exitApplication button will exit program

searchResults if there is a search and if there are results found then display results of searchQuote else display "no results found".

outputQuote button will load desk form to prompt user for input and display quote

calculateDeskSizeSurfaceArea will calculate the surface area of the desk using the formula Surface Area = $2((length * width) + (length * height) + (width * height))$

Price is as follows:

$(surfaceArea * \$1) + (numberOfDrawers * \$50) + (materialPrice) + (rushOrderPrice)$

rushOrderPrice is determined as follows

if desk is smaller than 1000 square inches

switch- Case 3 day = \$60

case 5 day = \$40

case 7 day = \$30

default: production time is 14 days and shipping is standard.

Else if desk is between 1000 and 2000 square inches

switch- Case 3 day = \$70

case 5 day = \$50

case 7 day = \$35

default: production time is 14 days and shipping is standard.

Else if desk is greater than 2000 square inches

switch- Case 3 day = \$80

case 5 day = \$60

case 7 day = \$40

default: production time is 14 days and shipping is standard.

Else shipping cost cannot be calculated.

materialPrice is calculated as the following:

case: oak-material price is \$200

case: laminate-material price is \$100

case: pine-material price is \$50

case: rosewood-material price is \$300

case: veneer-material price is \$125