Rowan Barr

2/16/2020

CMSC 203

Assignment 2 Design Documents

Pseudocode:

Import JOptionPane

The class goes here

The main goes here

Declare a childToy variable as a new Toy object

Declare a name string variable

Declare a cancel string variable and initialize it to “no”

Declare a moreGift string variable and initialize it to “no”

Declare a orderNumber int variable and initialize it using Math.random

Print out a welcome message in a dialog box

Do

Do

name = An input dialog box that asks the child’s name

childToy.setAge(An input dialog box that asks the age)

childToy.setToy(An input dialog box that asks the toy choice and

provides choices)

while ((childToy.getToy).equals(“”))

Print out an invalid toy error in a dialog box

childToy.setToy(An input dialog box that asks the toy choice and

provides choices)

If (!childToy.ageOk)

Cancel = Input dialog box to ask the user if they want to

cancel the request for a non age-appropriate toy

while(cancel.equalsIgnoreCase(“yes”))

childToy.addCard(An input dialog box that asks if they want to add a card)

childToy.addBalloon(An input dialog box that asks if they want to add a balloon)

System.out.println(“The toy you are gifting to “ + name +childToy.toString)

Total += childToy.getCost();

moreGift = An input dialog box that asks if they want to add more gifts

while(moreGift.equalsIgnoreCase(“yes”))

System.out.println(“The total cost is $“ + total + “ and your order number is “ + orderNumber)

System.out.println(“\nProgrammer: Rowan Barr”)

End program

Test Cases:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Age | Toy | Errors | Card | Balloon | Cost/Tota; |
| Mikey | 3 | blocks | none | yes | yes | $28.95 |
| Jemma | 6 | book | none | no | no | $15.00 |
| Katie | 4 | doll | Invalid choice! | NA | NA | NA |
| Niall | 1 | mobile | Invalid choice! | NA | NA | NA |
|  |  |  |  |  |  | $43.95 |