**Assignment 2, design pseudocode**

1. Create new keyboard scanner
2. Create new toy object
3. Create random number object
4. Create decimal format object
5. Declare constant string PROGRAMMER NAME and initialize to Odalis R. Flores
6. Declare string variables to hold childName, childAge, toy, balloon, card, additionalToy, and userInput
7. Declare integer variable for age and orderNumber
8. Declare double variable for orderTotal and initialize to 0
9. Display dialog box with welcome message
10. Display input dialog box to get childName
11. Display input dialog box to get childAge
12. Convert string childAge to age integer
13. set age to toy object setAge
14. Display input dialog box to get toy
15. Send toy to toy object setToy
16. send toy to setCost object
17. validate toy
    1. if toy object ageOK is flase
    2. display error message
    3. prompt user if they want to cancel
       1. while answer is yes
       2. Display input dialog box to get childName
       3. Display input dialog box to get childAge
       4. Convert string childAge to age integer
       5. set age to toy object setAge
       6. Display input dialog box to get toy
       7. Send toy to toy object setToy
       8. send toy to setCost object
18. display dialog box to add balloon set to string balloon
19. set balloon to toy object addBalloon
20. display dialog box to add card set to string card
21. set balloon to toy object card
22. add the total cost and initialize to orderTotal
23. display header for birthday gift
24. display childs name, toy and order cost
25. display dialog box to ask user if they would like to add another toy
    1. while userInput is yes
    2. Display dialog box with welcome message
    3. Display input dialog box to get childName
    4. Display input dialog box to get childAge
    5. Convert string childAge to age integer
    6. set age to toy object setAge
    7. Display input dialog box to get toy
    8. Send toy to toy object setToy
    9. send toy to setCost object
    10. validate toy
        1. if toy object ageOK is flase
        2. display error message
        3. prompt user if they want to cancel
           1. while answer is yes
           2. Display input dialog box to get childName
           3. Display input dialog box to get childAge
           4. Convert string childAge to age integer
           5. set age to toy object setAge
           6. Display input dialog box to get toy
           7. Send toy to toy object setToy
           8. send toy to setCost object
    11. display dialog box to add balloon set to string balloon
    12. set balloon to toy object addBalloon
    13. display dialog box to add card set to string card
    14. set balloon to toy object card
    15. display dialog box to ask user if they would like to add another toy
    16. display child name, toy, and cost of that order
    17. update orderTotal toy object get cost
26. set random number to orderNumber
27. display on console the random 5 digit number
28. display total cost of order
29. display programmer name
30. close keyboard Scanner
31. exit system

Test Cases

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Input** | **Actual Input** | **Expected Output** | **Actual Output** | **Did the test pass?** |
| 1 | Childs name: Susie Smith  Childs age: 2  Toy: plushie  Balloon: no  Card: no  Would you like to add another gift? Yes  Childs name: Johnny Jones  Childs age: 5  Toy: blocks  Balloon: no  Card: no  Would you like to add another gift? no | Childs name: Susie Smith  Childs age: 2  Toy: plushie  Balloon: no  Card: no  Would you like to add another gift? Yes  Childs name: Johnny Jones  Childs age: 5  Toy: blocks  Balloon: no  Card: no  Would you like to add another gift? no | The gift Susie Smith at 2 year old is a plushie for $25.00.  The gift for Johnny Jones at 5 years old is blocks for $20.00  The order number is #####. The order total is $45.00.  Programmer name: Odalis R. Flores | The gift Susie Smith at 2 year old is a plushie for $25.00.  The gift for Johnny Jones at 5 years old is blocks for $20.00  The order number is #####. The order total is $45.00.  Programmer name: Odalis R. Flores | Y |
| 2 | Childs name: Haley  Childs age: 9  Toy: plushie  Balloon: no  Card: no  Would you like to add another gift? no | Name: Haley  Age: 9  Toy: plushie  Error, cancel? no  Balloon: no  Card: no  Another toy: No | Error after entering toy  The gift for Haley at 9 years old is a plushie for $25.00  The order number is 83326. The order total is $25.00  Programmer name: Odalis R. Flores | Toy not appropriate  The gift for Haley at 9 years old is a plushie for $25.00  The order number is 83326. The order total is $25.00  Programmer name: Odalis R. Flores | Y |
| 3 | Childs name: Zoe  Childs age: 2  Toy: plushie  balloon: yes  card: no  Would you like to add another gift? No | Name: Zoe  Age: 2  Toy: plushie  Balloon: yes  Card: no  Another toy: No | The gift for Zoe 2 years old is plushie and balloon $31.00  Order number: #####  Programmer name: Odalis Flores | The gift for Zoe at 2 years old is a plushie for $31.00  The order number is 80695. The order total is $31.00  Programmer name: Odalis R. Flores | Y |
| 4 | Childs name: Kevin  Childs age: 5  Toy: book  Card or balloon: balloon  Would you like to add another gift? Y/N  Y Childs name: Sebas  Childs age: 3  Toy: plushi  Card or balloon: card  Would you like to add another gift? Y/N  N | Name: Kevin  Age: 5  Toy: book  Balloon: yes  Card: no  Another toy: yes  Name: Sebas  Age: 3  Toy: plushie  Error, cancel?  No  Balloon: no  Card: yes  Another toy: No | The gift for Kevin 5 years old is book and balloon  The gift for Sebas 3 years old(Error message) is plushie and card  Total cost: 48.95  Order number: #####  Programmer name: Odalis Flores | The gift for Kevin at 5 years old is a book for $21.00  The gift for Sebas at 3 years old is a plushie for $27.95  The order number is 14867. The order total is $48.95  Programmer name: Odalis R. Flores | Y |