Carlos Quarterman

Spring Semester 2014

Program#1(Part1a)…………………………...………....Book 10 (Part1b)…………………………………………….…….Book\_1

Program#2………………………………………...………Book1

Program#3……………………...…………………………Book2

Program#4………………………………………….....…Book22

Program#5………………………………………………...Book3

Program#6……………………………………………...…Book4

Program#7………………………………………………...Book5

Program#8………………………………………………...Book6

Program#9……………………………………………...…Book7

Program#10…………………………………………….....Book8

Flowchart 1a

principal = 100

rate = 0.04

time = 3

radius = 6.2

pi = 3.1416

radis = 9.1

b = 4.932747

pie = 3.1416

cube = 3.167219

interest= principal \* rate \* time

area = pi \* Math.pow(radius,2.0)

volume = .33 \* pie \* Math.pow(radis,2.0)\* b

volune = Math.pow(cube,3.0)

Display

Interest, area, volume, volune

Flowchart 1b

principal = 100

rate = 0.04

time = 3

radius = 6.2

pi = 3.1416

radis = 9.1

b = 4.932747

pie = 3.1416

cube = 3.167219

interest= principal \* rate \* time

area = pi \* Math.pow(radius,2.0)

volume = .33 \* pie \* Math.pow(radis,2.0)\* b

volune = Math.pow(cube,3.0)

Display

Interest, area, volume, volune

Flowchart 2

Sqyd  
Cost = 18.50  
labor\_sqyd = 3.50  
prep\_cost = 38.50  
Discount= 0.02  
Carpet\_charge = 314.50   
labor\_cost = 98.00   
Dis\_Carpet = 6.29   
tax = 12.58   
totalPrice

Carpet\_charge = Sqyd \* Cost

labor\_cost = Sqyd \* labor\_sqyd + prep\_cost

Dis\_Carpet = Carpet\_charge \* Discount

tax = Carpet\_charge \* .04

totalPrice = Carpet\_charge + labor\_cost + tax - Dis\_Carpet;

Display

Cost, labor\_sqyd, prep\_cost, Carpet\_charge, labor\_cost, Dis\_Carpet, tax and total\_Price

Flowchart 3

child\_cost  
 adult\_cost  
 total\_cost  
 T\_Dessert  
 total\_child  
 Deposit  
 dessert  
 total\_food  
 tip\_tax  
 tip\_tax2  
 room\_rate  
 total  
 Adult  
 Child

child\_cost = .60 \* adult\_cost  
 total\_cost = Adult \* adult\_cost  
 T\_Dessert = (Adult + Child) \* dessert  
 total\_child = Child \* child\_cost  
total\_food = total\_cost + T\_Dessert + total\_child  
tip\_tax2 = total\_food \* tip\_tax  
total = (total\_food + room\_rate + tip\_tax2) - Deposit

Display

Adult, Child, adult\_cost,child\_cost,dessert,room\_rate,tip\_tax, total\_cost,total\_child, T\_Dessert, total\_food, tip\_tax2, room\_rate, Deposit,total

Flowchart 4

Child = 7

child\_cost  
adult\_cost = 12.75  
total\_cost  
T\_Dessert  
total\_child  
Deposit = 50.00  
dessert = 1.00  
total\_food  
tip\_tax = .18  
tip\_tax2  
room\_rate = 45.00  
total  
Adult = 23

child\_cost = .60 \* adult\_cost  
 total\_cost = Adult \* adult\_cost  
 T\_Dessert = (Adult + Child) \* dessert  
 total\_child = Child \* child\_cost  
total\_food = total\_cost + T\_Dessert + total\_child  
tip\_tax2 = total\_food \* tip\_tax  
total = (total\_food + room\_rate + tip\_tax2) - Deposit

Display

Adult, Child, adult\_cost,child\_cost,dessert,room\_rate,tip\_tax, total\_cost,total\_child, T\_Dessert, total\_food, tip\_tax2, room\_rate, Deposit,total

Program 1a

The purpose of this program is menu driven and to calculate the simple interest, volume of a cube, area of a circle, and the volume of a cone.

Program 1b

The purpose of this program is to calculate the simple interest, area of a circle, volume of a cone, volume of a cube.

Program 2

The purpose of this program is to calculate amount a customer should be charged at The Maripot Carpet store.

Program 3

The purpose of this program is to produce customers’ bills at the Caswell Catering and Convention Service.

Program 4

The purpose of this program is menu driven, read from a data file, JOption-Pane and to produce customers’ bills at the Caswell Catering and Convention Service.

Data Dictionary 1a

|  |  |  |
| --- | --- | --- |
| Variable Name | Data Type | Location |
| principal | double | book10 |
| time | double | book10 |
| interest | double | book10 |
| rate | double | book10 |
| radius | double | book10 |
| pi | double | book10 |
| area | double | book10 |
| radis | double | book10 |
| b | double | book10 |
| pie | double | book10 |
| volume | double | book10 |
| volune | double | book10 |
| cube | double | book10 |

Data Dictionary 1b

|  |  |  |
| --- | --- | --- |
| Variable Name | Data Type | Location |
| principal | double | book\_1 |
| time | double | book\_1 |
| interest | double | book\_1 |
| rate | double | book\_1 |
| radius | double | book\_1 |
| pi | double | book\_1 |
| area | double | book\_1 |
| radis | double | book\_1 |
| b | double | book\_1 |
| pie | double | book\_1 |
| volume | double | book\_1 |
| volune | double | book\_1 |
| cube | double | book\_1 |

Data Dictionary 2

|  |  |  |
| --- | --- | --- |
| Variable Name | Data Type | Location |
| Sqyd | int | book1 |
| Cost | double | book1 |
| labor\_sqyd | double | book1 |
| prep\_cost | double | book1 |
| Discount | double | book1 |
| Carpet\_charge | double | book1 |
| labor\_cost | double | book1 |
| Dis\_Carpet | double | book1 |
| tax | double | book1 |
| totalPrice | double | book1 |

Data Dictionary 3

|  |  |  |
| --- | --- | --- |
| Variable Name | Data Type | Location |
| data | int | book2 |
| Child | Int | book2 |
| Adult | int | book2 |
| adult\_cost | double | book2 |
| child\_cost | double | book2 |
| room\_rate | double | book2 |
| tip\_tax | double | book2 |
| tip\_tax2 | double | book2 |
| Deposit | double | book2 |
| dessert | double | book2 |
| T\_Dessert | double | book2 |
| total\_cost | double | book2 |
| total\_child | double | book2 |
| total\_adult | double | book2 |
| total\_food | double | book2 |
| total | double | book2 |

Data Dictionary 3

|  |  |  |
| --- | --- | --- |
| Variable Name | Data Type | Location |
| name | String | book22 |
| str | String | book22 |
| Child | Int | book22 |
| Adult | int | book22 |
| adult\_cost | double | book22 |
| child\_cost | double | book22 |
| room\_rate | double | book22 |
| tip\_tax | double | book22 |
| tip\_tax2 | double | book22 |
| Deposit | double | book22 |
| dessert | double | book22 |
| T\_Dessert | double | book22 |
| total\_cost | double | book22 |
| total\_child | double | book22 |
| total\_adult | double | book22 |
| total\_food | double | book22 |
| total | double | book22 |