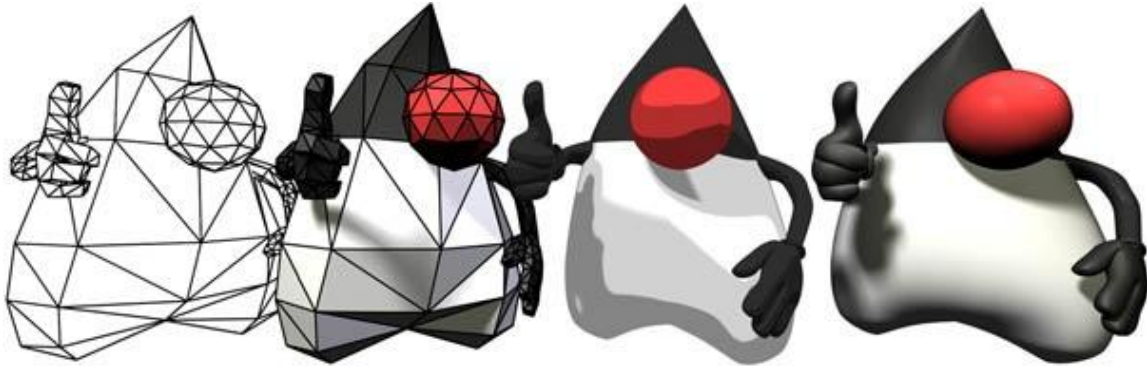


JAVA Assignment



Java Assignment 4: Array Practice Budget System

Making a monthly budget can help a family gain a realistic idea of how much they can afford to spend in a given month. For this project, you will allow a user to input in their annual salary.

You will give the user a menu with 5 different options;

Display Sample Budget 1

Display Sample Budget 2

Enter Actual Budget

Display Actual Budget

Exit

You will figure out their monthly salary and allow them to input a series of categories followed by amounts. The first three budget categories and amounts for all budgets will be as follows;

Federal Income Tax	Use 12 % for all
NY State Income Tax	Use 6% for all
Social Security and Medicare	Use 7.5% for all

Other categories and amounts will be in actual dollars, not percentages.

Example;

Enter Choice

- 1- Display Sample Budget 1**
- 2-Display Sample Budget 2**
- 3-Enter Actual Budget**
- 4-Display Actual Budget**
- 5-Exit**

1

Here is your sample budget for 4000 monthly

Item#	Amount	Item
----	-----	----
1	480	FIT
2	240	NYS
3	300	SS
4	1200	Mortgage
5	500	Food
6	80	Auto Insurance
7	300	Auto Payment
8	200	Student Loan
9	200	Investment
10	250	Heat/Electric
11	130	Cable/Phone/Internet
12	80	Mobile Phone
13	40	Misc
14	40	null
15	0	null

2

Here is your sample budget for 3000 monthly

Item#	Amount	Item
----	-----	----
1	360	FIT
2	180	NYS
3	225	SS
4	750	Rent
5	500	Food

6	80	Auto Insurance
7	30	Dog Food
8	120	Entertainment
9	300	Savings
10	15	World of Warcraft
11	130	Cable/Phone/Internet
12	80	Mobile Phone
13	200	Auto Repair
14	70	Misc
15	0	null

3

Please enter annual salary->48000

Here is your monthly income -> 4000

FIT	480
NYS	240
SS	300

Amount Left: 2980

Please enter in a category to add or q to quit->

Mortgage

Please enter in an amount->

1200

Amount Left: 1780

Please enter in a category to add or q to quit->

Food

Please enter in an amount->

500

Amount Left: 1280

Please enter in a category to add or q to quit->

Auto Insurance

Please enter in an amount->

80

etc...

Please enter in a category to add or q to quit->

q

4

Here is your budget for 4000 monthly

```
-----
```

Item#	Amount	Item
----	-----	----
1	480	FIT
2	240	NYS
3	300	SS
4	1200	Mortgage
5	500	Food
6	80	Auto Insurance
7	300	Auto Payment
8	150	Charity
9	200	Investment
10	250	Heat/Electric
11	130	Cable/Phone/Internet
12	80	Mobile Phone
13	90	Misc
14	0	null
15	0	null

Use four arrays for the sample budgets. Two will hold the categories(Strings) and two will hold the amounts (doubles).

Use two arrays to store the category information for the budget.

A String array for the category names and a double array for the category amounts. Fix the arrays at size 15.

To enter in the sample budget information, use the following technique

```
String sampCat1[ ] = new String[15]; //declare an array of 15 Strings
```

```
double sampAmt1[ ] = new double[15]; //declare an array of doubles for amts
```

```
sampCat1[0] = "Federal Income Tax";
```

```
sampleAmt[0] = 480;
```

```
//etc
```

You can save the annual salary in a variable and then figure out the monthly salary to work with.

The first 3 items must be as they appear above and should be figured as a percentage of the monthly salary. Starting at the 4th element in the array, allow the user to enter in a category name followed by an amount.

Then allow them to enter another until they either type in q to quit or reach 14 items. The last category will be misc and will have the remaining money available if any.

In order to loop through and ask the user to enter in data, try the following;

```
int item = 3;
while(item < 14) { //reserve 14 for the Miscellaneous
    System.out.println("Enter category name or q to quit");
    input.skip("\n");
    String temp = input.nextLine();

    if(temp.equals("q")) {
        break; //exits loop
    }
    ...
}
```

When the person presses q or uses up 14 items, assign the **first unused budget** category to be misc and use the remaining amount of money available for the misc category.

If a user has less than 14 categories, just set the rest to amount 0 with no description

Print out a summary of the budget by printing all categories and amounts

Project Name	Assign 2 – Family Budget
Class Name	Budget

Rubric	
Figures monthly income accurately	20
Figures FIT, State Tax and SS	20
Allows inputs up to 14 categories	25
Allows user to quit early	10
Prints budget accurately	15
Assigns Misc to FIRST unused category	10
TOTAL	100