CIS 36B – 7th Class / Lab Assignment – **10 Points-**

Student Name Kachilau **Student ID** 10819338 **Point Total**

Section 1: Define / Answer

Static variables- static variable is a variable that has been allocated statically—whose lifetime or "extent" extends across the entire run of the program.

Static methods- Java static method program: static methods in Java can be called without creating an object of class.

SubString- This method has two variants and returns a new string that is a substring of this string. The substring begins with the character at the specified index and extends to the end of this string or up to endIndex - 1 if second argument is given.

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Task 1-

USE OBJECT ORIENTATED PROGRAM DESIGN TO SOLVE PROBLEM

$4.25 2 Shoes

$1.25 5 Socks

Your program will take a text file containing 12 retail transactions and sum the total price of all items.

Separate operation of the program into "programmer created" classes.

main should simply operate the program.

1 Programmer class will read the date from a text file.

1 Programmer class will do the calculations

Output

The total # of items purchased.

The total cost of all the items.

Attach Snipping Photos of Source Code and Output, Original Text File, New Text File

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```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package javaapplication1;

import java.io.File;
import java.util.Scanner;


class Items{
    String price;
    String quality;
    String type;
    Items[] ary = new Items[12];
    java.io.File file = new java.io.File("StudentInfo.txt");

    Items(String price, String quality, String type){
        this.price = price;
        this.quality = quality;
        this.type = type;
    }

    Items(Items[] ary){
        this.ary = ary;
    }

    void print() throws Exception{
        file = new java.io.File("C:\\Users\\student\\Documents\\NetBeansProjects\\JavaApplication1\\StudentInfo.txt");
        java.io.PrintWriter output = new java.io.PrintWriter(file);

        for(int i = 0; i < ary.length; i++){
           output.println("$" + ary[i].price + " " + ary[i].quality + " " + ary[i].type);
        }
        output.close();
    }
}

class Access{
    void read() throws Exception{
        java.io.File file = new java.io.File("C:\\Users\\student\\Documents\\NetBeansProjects\\JavaApplication1\\StudentInfo.txt");
        String str;
        Scanner input = new Scanner(file);

        while(input.hasNext()){
            str = input.nextLine();
            System.out.println(str);
        }
    }
}

class Math{
    void calculation() throws Exception{
        java.io.File file = new java.io.File("C:\\Users\\student\\Documents\\NetBeansProjects\\JavaApplication1\\StudentInfo.txt");
        String str;
        String temp1, temp2;
        double sample = 0;
        double total = 0;
        int count = 0;
```

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```
            double q = 0;
            Scanner input = new Scanner(file);

            while(input.hasNext()){
                str = input.nextLine();
                temp1 = str.substring(1, 5);
                sample = Double.parseDouble(temp1);

                temp2 = str.substring(6, 7);
                q = Double.parseDouble(temp2);

                total += (sample * q);
                count++;
            }

            System.out.println("The total# of items purchased: " + count);
            System.out.println("The total cost of all the items: $" + total );

        }
    }

    public class JavaApplication9 {
        public static void main(String[] args)throws Exception {
            Items[] ary = new Items[12]; //Info1 ary
            ary[0] = new Items("4.25", "2", "Socks");
            ary[1] = new Items("3.25", "2", "Shoes");
            ary[2] = new Items("1.25", "3", "Cards");
            ary[3] = new Items("6.25", "1", "NoteBook");
            ary[4] = new Items("7.25", "1", "Folder");
            ary[5] = new Items("8.25", "1", "LightBult");
              ary[6] = new Items("1.25", "5", "Pens");
              ary[7] = new Items("2.25", "2", "Cokes");
              ary[8] = new Items("2.50", "2", "Chips");
              ary[9] = new Items("7.00", "1", "Sandwich");
              ary[10] = new Items("7.00", "1", "Ham");
              ary[11] = new Items("9.00", "1", "Chicken");

              Items var1 = new Items(ary); //Info1 object

              var1.print(); //store into String ary

              Access var2 = new Access(); //default intinizte
              var2.read();

              Math var3 = new Math();
              var3.calculation();
         }

     }
```

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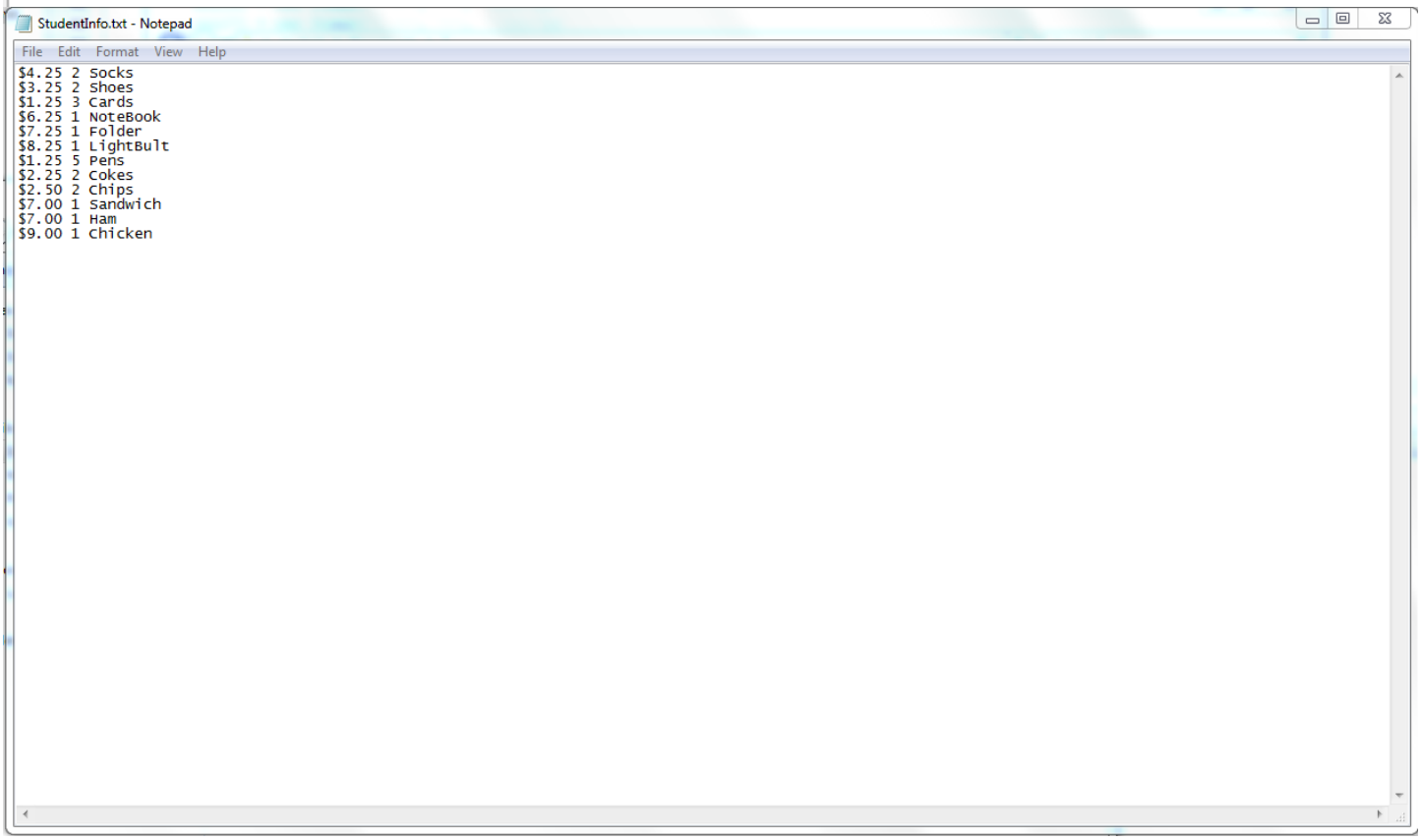
```
run:
$4.25 2 Socks
$3.25 2 Shoes
$1.25 3 Cards
$6.25 1 NoteBook
$7.25 1 Folder
$8.25 1 LightBult
$1.25 5 Pens
$2.25 2 Cokes
$2.50 2 Chips
$7.00 1 Sandwich
$7.00 1 Ham
$9.00 1 Chicken
The total# of items purchased: 12
The total cost of all the items: $79.25
BUILD SUCCESSFUL (total time: 5 seconds)
```



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