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import java.io.*;
import java.util.*;
public class Change2{
    public static void main(String[] args){
        boolean go = true;
        double cost;
        double amount = 0;
        double change;
        double q, n, d, p, t, o, f, tw, h, fif;
        int breakout = 1;
        try{
            BufferedReader bReader = new BufferedReader(new InputStreamReader(System.in)) ;
            while(breakout >0){
                System.out.print("Please enter the amount of the purchase: ");
                String s = bReader.readLine();
                if (s == "stop") {breakout = -1;}
                cost = ((Double.valueOf(s).doubleValue()));
                System.out.print("Please enter the amount tendered: ");
                s = bReader.readLine();
                if (s == "stop"){breakout = -1;}
                amount = ((Double.valueOf(s).doubleValue()));
                if (amount >= 0){
                    if (cost < amount){
                        change = (amount-cost);
                        System.out.println("Give the following change ($" +Format.format (change
                            , 2, 1, 1)+" ) :");
                        h = ((change-(change%100))/100);
                        change = change - (100*h);
                        fif = ((change-(change%50))/50);
                        change = change - (50*fif);
                        tw = ((change-(change%20))/20);
                        change = change - (20*tw);
                        t = ((change-(change%10))/10);
                        change = change - (10*t);
                        f = ((change-(change%5))/5);
                        change = change - (5*f);
                        o = ((change-(change%1))/1);
                        change = change - (1*o);
                        q = ((change-(change%.25))/.25);
                        change = change - (.25*q);
                        d = ((change-(change%.1))/.1);
                        change = change - (.1*d);
                        n = ((change-(change%.05))/.05);
                        change = change - (.05*n);
                        p = ((change-(change%.01))/.01);
                        change = change - (.01*p);
                        if (change > 0.001) {p = p + 1;}
                        String hund =String.valueOf(h);
                        String fi ft =String.valueOf(fi f);
                        String twen =String.valueOf(tw);
                        String tens =String.valueOf(t);
                        String five =String.valueOf(f);
                        String ones =String.valueOf(o);
                        String quart =String.valueOf(q);
                        String di mes =String.valueOf(d);
                        String ni ck =String.valueOf(n);
                        String penn =String.valueOf(p);
                        {if (h>1) System.out.println(Format.format(hund.substring(0,(hund.length
                            ())-2), 3, 1) + " $100 Bills");
                        else if (h>0) System.out.println(Format.format(hund.substring(0,(hund.
                            length()-2), 3, 1) + " $100 Bill");
                        }
                        if (fi f>0) System.out.println(Format.format(fi ft.substring(0,(fi ft.
                            length()-2), 3, 1) + " $50 Bill");
                        {if (tw>1) System.out.print(Format.format(twen.substring(0,(twen.length
                            ())-2), 3, 1) + " $20 Bills");
                        else if (tw>0) System.out.println(Format.format(twen.substring(0,(twen.
                            length()-2), 3, 1) + " $20 Bill");
                        }
                        {if (t>0) System.out.println(Format.format(tens.substring(0,(tens.length
                            ())-2), 3, 1) + " $10 Bill");
                        }
                    }
                }
            }
        }
    }
}

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        {if (f>0) System.out.println(Format.format(five.substring(0, 1), 3,
        1) + " $5 Bill");
        }
        {if (o>1) System.out.println(Format.format(ones.substring(0, (ones.length
        ())-2), 3, 1) + " $1 Bills");
        else if (o>0) System.out.println(Format.format(ones.substring(0, 1), 3,
        1) + " $1 Bill");
        }
        {if (q>1) System.out.println(Format.format(quarter.substring(0, (quarter.
        length()-2), 3, 1) + " Quarters");
        else if (q>0) System.out.println(Format.format(quarter.substring(0, 1), 3,
        1) + " Quarter");
        }
        {if (d>1) System.out.println(Format.format(dimes.substring(0, (dimes.
        length()-2), 3, 1) + " Dimes");
        else if (d>0) System.out.println(Format.format(dimes.substring(0, 1), 3,
        1) + " Dime");
        }
        {if (n>0) System.out.println(Format.format(nick.substring(0, 1), 3, 1) + "
        Nickle");
        }
        {if (p>1) System.out.println(Format.format(penn.substring(0, (penn.length
        ())-2), 3, 1) + " Pennies");
        else if (p>0) System.out.println(Format.format(penn.substring(0, 1), 3,
        1) + " Penny");
        }
    }
    else if (cost == amount){System.out.println("There is no change.");}
    else {
        int wid = 6;
        if ((cost-amount)<10) wid = 2;
        if ((cost-amount)<100) wid = 3;
        if ((cost-amount)<1000) wid = 4
        ;
        System.out.println("The amount tendered is $" + Format.format((Math.abs
        (cost-amount)), 2, wid, 1) + " short.");
    }
    }
    else {System.out.println("Bye"); break;}
}System.out.println("Bye");
}catch(Exception e){System.out.println("Oops! Invalid entry.");}
}
}
}

```