

NUESCA, GEENA MAE G.
BSIT 2-4 OOP MIDTERM ACT#4

PROGRAM:

```
StudentPaymentSystemNuesca.java X
1 package MidtermActivity4;
2
3 import java.util.Scanner;
4
5 public class StudentPaymentSystemNuesca {
6
7     public static void main(String[] args) {
8
9         Scanner sc = new Scanner(System.in);
10
11         int choice, studID, stud, counter = 0;
12         double pay, bal, disc;
13         boolean discapp = false;
14         String name;
15
16         System.out.println("\n\t\tWelcome to the Student Payment System!\n");
17         System.out.print("Enter Student Name: ");
18         name = sc.nextLine();
19         System.out.print("Enter Student ID: ");
20         studID = sc.nextInt();
21         System.out.print("Enter Total Tuition Fee: ");
22         bal = sc.nextDouble();
23
24         do {
25             System.out.println("\n\n==== PAYMENT MENU =====");
26             System.out.println("1. Pay Tuition");
27             System.out.println("2. Check Balance");
28             System.out.println("3. Apply Discount");
29             System.out.println("4. Exit");
30
31             System.out.print("--> Choose your transaction: ");
32             choice = sc.nextInt();
33
34             switch(choice) {
35
36                 case 1:
37                     if (bal == 0) {
38                         System.out.println("No Remaining Balance.");
39                     }
40                     else {
41                         System.out.print("Enter amount payment: ");
42                         pay = sc.nextDouble();
43
44                         if (pay > bal) {
45                             System.out.println("Invalid Payment.");
46                         }
47                         else {
48                             bal -= pay;
49                             counter ++;
50                             System.out.println("Payment Successful.");
51
52                             if (bal == 0) {
53                                 System.out.println("No Remaining Balance.");
54                             }
55                         }
56                     }
57                     break;
58
59                 case 2:
60                     if (bal == 0) {
61                         System.out.println("No Remaining Balance.");
62                     }
63                     else {
64                         System.out.print("Remaining Balance: " + bal);
65                     }
66                     counter ++;
67                     break;
68
69                 case 3:
70                     if (discapp) {
71                         System.out.println("Discount has already been applied.");
72                     }
73                     else {
74                         System.out.print("Type of Student = 1-Regular , 2-Scholar: ");
75                         stud = sc.nextInt();
76
77                         if (stud == 1) {
78                             discapp = true;
79                             System.out.println("No discount applied.");
80                         }
81                         else if (stud == 2) {
82                             disc = bal * 0.20;
83                             bal -= disc;
84                             discapp = true;
85                             counter ++;
86                             System.out.println("20% discount applied.");
87                         }
88                         else {
89                             System.out.println("Invalid.");
90                         }
91                     }
92                     break;
93
94                 case 4:
95                     System.out.println("\nThank you for using the Student Payment System!");
96                     System.out.println("Student Name: " + name);
97                     System.out.println("Total Transactions: " + counter);
98                     System.out.println("Final Balance: " + bal);
99                     break;
100
101                 default:
102                     System.out.println("Invalid.");
103                     break;
104             }
105         } while (choice != 4);
106
107         sc.close();
108     }
109 }
110
111 }
112 }
```

```
69 case 3:
70     if (discapp) {
71         System.out.println("Discount has already been applied.");
72     }
73     else {
74         System.out.print("Type of Student = 1-Regular , 2-Scholar: ");
75         stud = sc.nextInt();
76
77         if (stud == 1) {
78             discapp = true;
79             System.out.println("No discount applied.");
80         }
81         else if (stud == 2) {
82             disc = bal * 0.20;
83             bal -= disc;
84             discapp = true;
85             counter ++;
86             System.out.println("20% discount applied.");
87         }
88         else {
89             System.out.println("Invalid.");
90         }
91     }
92     break;
93
94 case 4:
95     System.out.println("\nThank you for using the Student Payment System!");
96     System.out.println("Student Name: " + name);
97     System.out.println("Total Transactions: " + counter);
98     System.out.println("Final Balance: " + bal);
99     break;
100
101 default:
102     System.out.println("Invalid.");
103     break;
104 }
105
106 } while (choice !=4);
107
108 sc.close();
109 }
110
111 }
112 }
```

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OUTPUT 1:

```
Console X
<terminated> StudentPaymentSystemNuesca [Java Application] C:\Program Files\Eclipse Adoptium\jdk-2

Welcome to the Student Payment System!
Enter Student Name: Eena Nuesca
Enter Student ID: 1004
Enter Total Tuition Fee: 10000

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 3
Type of Student = 1-Regular , 2-Scholar: 2
20% discount applied.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 1
Enter amount payment: 3000
Payment Successful.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 2
Remaining Balance: 5000.0

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 4

Thank you for using the Student Payment System!
Student Name: Eena Nuesca
Total Transactions: 3
Final Balance: 5000.0
```

OUTPUT 2:

```
Console X
<terminated> StudentPaymentSystemNuesca [Java Application] C:\Program Files\Eclipse Adoptium\jdk-2

Welcome to the Student Payment System!
Enter Student Name: Adel Fruits
Enter Student ID: 3002
Enter Total Tuition Fee: 10000

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 3
Type of Student = 1-Regular , 2-Scholar: 1
No discount applied.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 1
Enter amount payment: 5000
Payment Successful.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 1
Enter amount payment: 5000
Payment Successful.
No Remaining Balance.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 3
Discount has already been applied.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 2
No Remaining Balance.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 4

Thank you for using the Student Payment System!
Student Name: Adel Fruits
Total Transactions: 3
Final Balance: 0.0
```

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OUTPUT 3:

```
Console X
<terminated> StudentPaymentSystemNuesca [Java Application] C:\Program Files\Eclipse Adoptium\jdk-2

Welcome to the Student Payment System!
Enter Student Name: Moya Mi
Enter Student ID: 3432
Enter Total Tuition Fee: 10000

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 5
Invalid.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 1
Enter amount payment: 1000000
Invalid Payment.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 3
Type of Student = 1-Regular , 2-Scholar: 1
No discount applied.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 3
Discount has already been applied.

===== PAYMENT MENU =====
1. Pay Tuition
2. Check Balance
3. Apply Discount
4. Exit
--> Choose your transaction: 4

Thank you for using the Student Payment System!
Student Name: Moya Mi
Total Transactions: 0
Final Balance: 10000.0
```