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Course: Object Oriented Programing **Class: 3C**

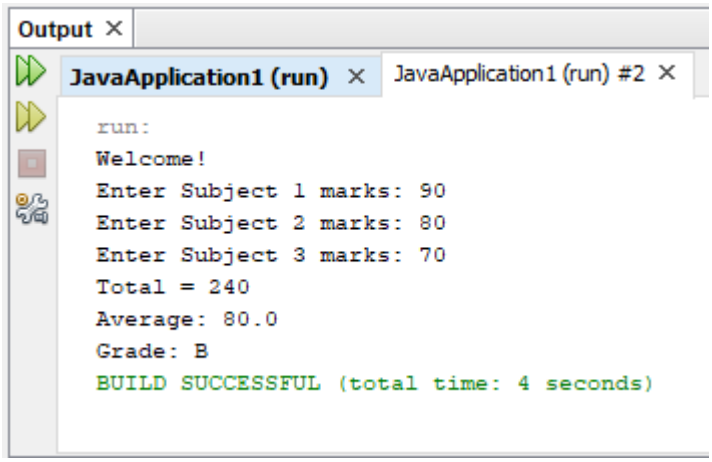
LAB 03

Student Marks Calculator:

```
1   package javaapplication1;
2   import java.util.Scanner;
3
4   public class javaapplication1 {
5
6       int m1, m2, m3;
7
8       void totalMark() {
9           System.out.println("Total = " + (m1 + m2 + m3));
10      }
11      double averageMark() {
12          return (m1 + m2 + m3) / 3.0;
13      }
14      char grade(double avg) {
15          if (avg >= 85) {
16              return 'A';
17          } else if (avg >= 70) {
18              return 'B';
19          } else if (avg >= 50) {
20              return 'C';
21          } else {
22              return 'F';
23          }
24      }
25
```

```
26      public static void main(String[] args) {
27          Scanner x = new Scanner(System.in);
28          javaapplication1 obj = new javaapplication1();
29
30          System.out.println("Welcome!");
31          System.out.print("Enter Subject 1 marks: ");
32          obj.m1 = x.nextInt();
33          System.out.print("Enter Subject 2 marks: ");
34          obj.m2 = x.nextInt();
35          System.out.print("Enter Subject 3 marks: ");
36          obj.m3 = x.nextInt();
37
38          obj.totalMark();
39          double average = obj.averageMark();
40          System.out.println("Average: " + average);
41          char grd = obj.grade(average);
42          System.out.println("Grade: " + grd);
43
44
45      }
46  }
```

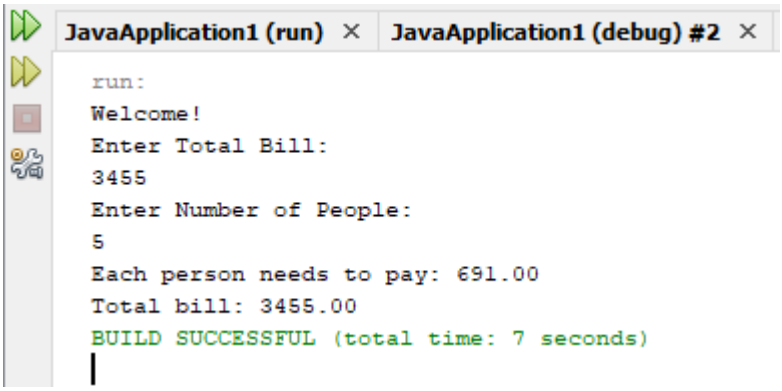
Output:



Split bill Calculator:

```java
package javaapplication1;
import java.util.Scanner;

public class ammar {
    // Instance variable for bill amount
    static double billAmount;
    // Single Scanner instance
    Scanner x = new Scanner(System.in);

    // Method to input the bill amount
    double enterBill() {
        System.out.println("Enter Total Bill:");
        billAmount = x.nextDouble();  // Set the billAmount
        return billAmount;
    }

    // Method to split the bill
    void splitBill() {
        System.out.println("Enter Number of People:");
        int people = x.nextInt();

        // Calculate the share of each person (ensure it's a double for accuracy)
        if (people > 0) {
            double personShare = billAmount / people;
            System.out.printf("Each person needs to pay: %.2f\n", personShare);
        } else {
            System.out.println("Invalid number of people.");
        }
    }

    public static void main(String[] args) {
        ammar obj = new ammar();
        System.out.println("Welcome!");

        // Get the bill amount from the user
        double bill = obj.enterBill();

        // Split the bill among the people
        obj.splitBill();

        // Display the total bill amount
        System.out.printf("Total bill: %.2f\n", bill);
    }
}
```

Output:



Password Strength Checker: