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Batch Code : Java_ANP-C6315

Lab Assignment – 7

Q1: Write a program to count the sum of given numbers from the user.

Input:

```java
package CoreJava;
import java.util.Scanner;
public class count {
        public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
    System.out.println("Enter the number of elements:");
    int n = scanner.nextInt();
    System.out.println("Enter the elements:");
    int sum = 0;
    for (int i = 0; i < n; i++) {
       int num = scanner.nextInt();
       sum += num;
    }
    System.out.println("The sum of the given numbers is: " + sum);
    scanner.close();
        }
}
```

Output:

Enter the number of elements:
3
Enter the elements:
12
14
0
The sum of the given numbers is: 26

Q2: Create a class Student with Name, ID, and Grade properties. Create a parameterized constructor to initialize values to the object. Display the object values.

Input:

```java
package CoreJava;

import java.util.Scanner;

public class Student {
    private String name;
    private String id;
    private String grade;

    public Student(String name, String id, String grade) {
        this.name = name;
        this.id = id;
        this.grade = grade;
    }

    public void displayStudentDetails() {
        System.out.println("Student Name: " + name);
        System.out.println("Student ID: " + id);
        System.out.println("Student Grade: " + grade);
        System.out.println(); // Print a newline character at the end
    }

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.println("Enter the number of students:");
        int n = scanner.nextInt();

        for (int i = 0; i < n; i++) {
            System.out.println("Enter the details of student " + (i + 1) + ":");
            System.out.println("Enter the name:");
            String name = scanner.next();
            System.out.println("Enter the ID:");
            String id = scanner.next();
            System.out.println("Enter the grade:");
            String grade = scanner.next();
```

```java
            Student student = new Student(name, id, grade);
            student.displayStudentDetails();
        }

        scanner.close();
    }
}
```

Output:

Enter the number of students:
3

Enter the details of student 1:
Enter the name:
Anush
Enter the ID:
20cs060
Enter the grade:
A+
Student Name: Anush
Student ID: 20cs060
Student Grade: A+

Enter the details of student 2:
Enter the name:
Sagar
Enter the ID:
20cv046
Enter the grade:
B
Student Name: Sagar
Student ID: 20cv046
Student Grade: B

Enter the details of student 3:
Enter the name:
Sampath
Enter the ID:
20EE078
Enter the grade:D

Student Name: Sampath
Student ID: 20EE078
Student Grade: D