

Question 2

Write a program to create student class with fields. The total of the 3 subjects must be calculated only when the student passes is all 3 subjects, otherwise declare total is 0. Using constructor create an array of 'n' students.

```
import java.util.*;

class Student {
    int regno, i, total = 0;
    int mark[] = new int[3];
    String name;

    Student (int reg, String nam, int m[]) {
        this.regno = reg;
        this.name = nam;

        for (i = 0; i < 3; i++) {
            this.mark[i] = m[i];
            if (m[i] < 35) {
                this.total = 0;
                break;
            }
            else
                this.total += m[i];
        }
    }

    public void display() {
        System.out.println("Rengno: " + this.regno + "\tName: " + this.name + "\tTotal: " + this.total + "\n");
    }
}

public class StudentApplication {
    public static void main(String args[]) {
        int score[] = new int[3];
        Scanner ob = new Scanner(System.in);

        try {
            System.out.print("Enter no. of students: ");
            int n = ob.nextInt();
            Student s[] = new Student[n];    // creating array of objects

            for (int i = 0; i < n; i++) {
                System.out.println("Enter details of student" + (i + 1) + ":");
                System.out.print("Enter register number: ");
                int no = ob.nextInt();
                System.out.print("Enter name: ");
                String name = ob.next();
                System.out.println("Enter marks in 3 subjects:");
                for (int j = 0; j < 3; j++) {
                    score[j] = ob.nextInt();
                }
            }
        }
    }
}
```

```

    }

    s[i] = new Student(no, name, score); // calling constructor for each object separately
}

System.out.println("\nStudent Details:");

for (int i = 0; i < n; i++) {
    System.out.println("Student" + (i + 1) + ":");
    s[i].display();
}
} catch (Exception e) {
    System.out.println("Some error occurred");
}

ob.close(); // closing the scanner object to avoid leakage
}
}

```

Output:

```

Enter no. of students: 2
Enter details of student1:
Enter register number: 422
Enter name: Zoro
Enter marks in 3 subjects:
89
78
53
Enter details of student2:
Enter register number: 423
Enter name: Sanji
Enter marks in 3 subjects:
89
98
34

Student Details:
Student1:
Rengno: 422      Name: Zoro      Total: 220

Student2:
Rengno: 423      Name: Sanji      Total: 0

```