

Student Info

```
package studentprog;
import java.util.*;
public class Student {
    String usn, name, branch;
    long phone;
    public void insertStudent(String reg, String nm, String br, long ph) {
        usn = reg;
        name = nm;
        branch = br;
        phone = ph;
    }

    public void displayStudent() {
        System.out.println("*****");
        System.out.println("USN = " + usn);
        System.out.println("Name = " + name);
        System.out.println("Branch = " + branch);
        System.out.println("Phone no = " + phone);
    }
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of students: ");
        int n = sc.nextInt();
        Student st[] = new Student[n];
        System.out.println("Enter the USN, Name, Branch, and Phone number of students:");
        for (int i = 0; i < n; i++) {
            st[i] = new Student();
            System.out.println("Student " + (i + 1) + " details: ");
            String usn = sc.next();
            String name = sc.next();
            String branch = sc.next();
            long phone = sc.nextLong();
            st[i].insertStudent(usn, name, branch, phone);
        }
        System.out.println("\nStudent Details:");
        for (int i = 0; i < n; i++) {
            st[i].displayStudent();
        }
        sc.close();
    }
}
```

Try Catch

```
package Trycatch;

import java.util.Scanner;

public class divide {

    void div(int a, int b) {

        try {

            int c = a / b;

            System.out.println("Result = " + c);

        } catch (ArithmeticException e) {

            System.out.println("Cannot divide by zero");

        }

    }

    public static void main(String[] args) {

        Scanner in = new Scanner(System.in);

        System.out.print("Enter values of a & b: ");

        int num1 = in.nextInt();

        int num2 = in.nextInt();

        divide obj = new divide();

        obj.div(num1, num2);

        in.close();

    }

}
```

Multithread

```
package Multithread;

import java.util.Random;

class Square extends Thread {

    int x;

    Square(int n) {

        x = n;

    }

    public void run() {

        int sqr = x * x;

        System.out.println("Square of " + x + " = " + sqr);

    }

}

class Cube extends Thread {

    int x;

    Cube(int n) {

        x = n;

    }

    public void run() {

        int cube = x * x * x;

        System.out.println("Cube of " + x + " = " + cube);

    }

}

class RNumber extends Thread {

    public void run() {

        Random random = new Random();

        for (int i = 0; i < 5; i++) {

            int randomInteger = random.nextInt(10) + 1;

            System.out.println("Random Integer generated: " + randomInteger);

            Square s = new Square(randomInteger);

            s.start();

        }

    }

}
```

```
Cube c = new Cube(randomInteger);  
c.start();  
try {  
    Thread.sleep(1000);  
} catch (InterruptedException e) {  
    System.out.println(e);  
}  
}  
}  
}  
}  
public class ThreadExample {  
    public static void main(String[] args) {  
        RNumber n = new RNumber();  
        n.start();  
    }  
}
```