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package LoopBranching;
import java.util.Scanner;
//Challenge: Print multiplication table for a number.
public class Challenge1 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number to get its multiples: ");
        int n = sc.nextInt();
        for(int i=1;i<=10;i++) {
            System.out.println(n + " x " + i + " = " + (n*i));
        }
        sc.close();
    }
}

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package LoopBranching;
//Challenge: Use break and continue in loops.
public class Challenge2 {
    public static void main(String[] args) {
        for (int i = 1; i <= 10; i++) {
            if (i == 3) {
                System.out.println("3 is skipped");
                continue;
            }
            if (i == 9) {
                break;
            }
            System.out.println(i);
        }
    }
}

```

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package LoopBranching;
import java.util.Scanner;
//Challenge: Find factorial of a number.
public class Challenge3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number to get its factorial: ");
        int n = sc.nextInt();
        double fact = 1;
        for (int i = 1; i <= n; i++) {
            fact *= i;
        }
        System.out.println("Factorial of " + n + " = " + fact);
        sc.close();
    }
}

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package LoopBranching;
import java.util.Scanner;
//Challenge: Print Fibonacci series.
public class Challenge4 {
    public static void main(String[] args) {
        int n1 = 0, n2 = 1;
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number to get the fibonacci series: ");
        int n = sc.nextInt();
        System.out.print("Fibonacci Series: ");
        for (int i = 1; i <= n; i++) {
            System.out.print(n1 + " ");
            int sum = n1 + n2;
            n1 = n2;
            n2 = sum;
        }
        sc.close();
    }
}

```

```

package LoopBranching;
//Challenge: Find sum of even numbers from 1 to 100.
public class Challenge5 {
    public static void main(String[] args) {
        int sum = 0;
        for(int i=1; i<=100; i++) {
            if(i%2==0) {
                sum+=i;
            }
        }
        System.out.println("Sum of even numbers from 1 to 100 = "+sum);
    }
}

```