```java
// Write your code here
import java.util.Scanner;

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

        int n = input.nextInt();
        int ans = 1;
        for(int i = 1; i <= n; i++){
            ans *= i;
        }

        System.out.println("Factorial of a given number is " + ans);
    }
}
```

```java
// Write your code here
import java.util.Scanner;

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

        int n = input.nextInt();
        for(int i = 1; i <= 12; i++){
            System.out.println(n + " x " + i + " = " + n*i);
        }
    }
}
```

```java
// Write your code here
import java.util.Scanner;

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

        int n = input.nextInt();
        int count = 0;
        while(n != 1){
            if(n % 2 == 0){
                System.out.println(n + " is even so i take half : " + n/2);
                n /= 2;
            }
            else{
                System.out.println(n + " is odd so i make 3n+1 : " + (3*n+1));
                n = 3*n+1;
            }
            count++;
        }
        System.out.println("There are total " + count + " steps to reach 1");
    }
}
```