

The screenshot shows an IDE window titled 'mavenproject16 - Apache NetBeans IDE 23'. The main editor displays a Java file named 'Mavenproject16.java'. The code is as follows:

```
1 //  
2 import java.util.Scanner;  
3  
4 public class Mavenproject16 {  
5     public static void main(String[] args) {  
6         Scanner scanner = new Scanner(System.in);  
7         System.out.print("Ingresa un número del 1 al 10: ");  
8         int numero = scanner.nextInt();  
9  
10        if (numero < 1 || numero > 10) {  
11            System.out.println("El número debe estar entre 1 y 10.");  
12        } else {  
13            for (int i = 1; i <= 10; i++) {  
14                System.out.println(numero + " x " + i + " = " + (numero * i));  
15            }  
16        }  
17        scanner.close();  
18    }  
19 }
```

The 'Output - Run (Mavenproject16)' window at the bottom shows the following output:

```
1 x 1 = 1  
2 x 2 = 4  
3 x 3 = 9  
4 x 4 = 16  
5 x 5 = 25  
6 x 6 = 36  
7 x 7 = 49  
8 x 8 = 64  
9 x 9 = 81  
10 x 10 = 100
```

The screenshot shows the same IDE window with the same Java file 'Mavenproject16.java'. The code is modified to use a while loop:

```
1 //  
2 import java.util.Scanner;  
3  
4 public class Mavenproject16 {  
5     public static void main(String[] args) {  
6         Scanner scanner = new Scanner(System.in);  
7         System.out.print("Ingresa un número del 1 al 10: ");  
8         int numero = scanner.nextInt();  
9  
10        if (numero < 1 || numero > 10) {  
11            System.out.println("El número debe estar entre 1 y 10.");  
12        } else {  
13            int i = 1;  
14            while (i <= 10) {  
15                System.out.println(numero + " x " + i + " = " + (numero * i));  
16                i++;  
17            }  
18        }  
19    }  
20 }
```

The 'Output - Run (Mavenproject16)' window at the bottom shows the following output:

```
1 x 1 = 1  
2 x 2 = 4  
3 x 3 = 9  
4 x 4 = 16  
5 x 5 = 25  
6 x 6 = 36  
7 x 7 = 49  
8 x 8 = 64  
9 x 9 = 81  
10 x 10 = 100
```

