



Universidad Autónoma de Tamaulipas

Facultad de Ingeniería Tampico

Ingeniería en Sistemas Computacionales

Asignatura: Fundamentos De programación

Grupo: N Grado: 1

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```
1
2
3 import java.util.Scanner;
4 public class ejercicio_8_1_mc {
5     public static void main(String[] args) {
6         Scanner sc = new Scanner(System.in);
7         double subtotal, n, pesos, iva, alum, maestro, x, descuento, des, total;
8         System.out.print("Ingrese la tarifa: ");
9         n = sc.nextDouble();
10        System.out.print("¿Qué eres? 1. Docente 2. Alumno: ");
11        x = sc.nextDouble();
12        if (x == 1) {
13            des = n * 0.20;
14            subtotal = n - des;
15            iva = subtotal * 0.16;
16            total = subtotal + iva;
17            System.out.println("El precio del servicio es: " + n + " Descuento por ser docente de: " + des + " Total a pagar
18        } else if (x == 2) {
19            des = n * 0.10;
20            subtotal = n - des;
21            iva = subtotal * 0.16;
22            total = subtotal + iva;
23            System.out.println("El precio del servicio es: " + n + " Descuento por ser alumno de: " + des + " Total a pagar
24        }
25        sc.close();
26    }
27
28 }
29
```

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terminated> ejercicio_8_1_mc [Java Application] C:\Program Files\Java\jdk-24\bin\javaw.exe (11 feb 2026 18:43:30 – 18:43:37 elapsed 0:00:07) [pid: 20764]

Ingrese la tarifa: 2000

¿Qué eres? 1. Docente 2. Alumno: 1

El precio del servicio es: 2000.0 Descuento por ser docente de: 400.0 Total a pagar con IVA es de: 1856.0



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```
1 import java.io.BufferedReader;
2 import java.io.InputStreamReader;
3 import java.io.IOException;
4
5 public class problema_8_1_buffer {
6
7     public static void main(String[] args) throws IOException {
8
9         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
10
11         double subtotal, n, iva, x, des, total;
12
13         System.out.print("Ingrese la tarifa: ");
14         n = Double.parseDouble(br.readLine());
15
16         System.out.print("¿Qué eres? 1. Docente 2. Alumno: ");
17         x = Double.parseDouble(br.readLine());
18
19         if (x == 1) {
20             des = n * 0.20;
21         } else if (x == 2) {
22             des = n * 0.10;
23         } else {
24             System.out.println("Opción inválida");
25             return;
26         }
27
28         subtotal = n - des;
29         iva = subtotal * 0.16;
30         total = subtotal + iva;
31     }
32 }
```

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terminated> problema_8_1_buffer [Java Application] C:\Program Files\Java\jdk-24\bin\javaw.exe (11 feb 2026 18:44:05 – 18:44:14 elapsed 0:00:09) [pid: 23740]

```
Ingrese la tarifa: 2000
¿Qué eres? 1. Docente 2. Alumno: 1
precio del servicio es: 2000.0
descuento: 400.0
total con IVA: 1856.0
```



```
13     x = Double.parseDouble(  
14         JOptionPane.showInputDialog("¿Qué eres?\n1. Docente\n2. Alumno")  
15     );  
16  
17     if (x == 1) {  
18  
19         des = n * 0.20;  
20         subtotal = n - des;  
21         iva = subtotal * 0.16;  
22         total = subtotal + iva;  
23  
24         JOptionPane.showMessageDialog(null,  
25             "El precio del servicio es: " + n +  
26             "\nDescuento por ser docente: " + des +  
27             "\nTotal a pagar con IVA: " + total);  
28  
29     } else if (x == 2) {  
30  
31         des = n * 0.10;  
32         subtotal = n - des;  
33         iva = subtotal * 0.16;  
34         total = subtotal + iva;  
35  
36         JOptionPane.showMessageDialog(null,  
37             "El precio del servicio es: " + n +  
38             "\nDescuento por ser alumno: " + des +  
39             "\nTotal a pagar con IVA: " + total);  
40     }  
41 }  
42 }  
43
```



```
1 import java.io.BufferedReader;
2 import java.io.InputStreamReader;
3 import java.io.IOException;
4
5 public class ejercicio_8_2_buffed {
6
7     public static void main(String[] args) throws IOException {
8
9         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
10
11         double a, b, c;
12
13         System.out.print("Ingrese lado 1: ");
14         a = Double.parseDouble(br.readLine());
15
16         System.out.print("Ingrese lado 2: ");
17         b = Double.parseDouble(br.readLine());
18
19         System.out.print("Ingrese lado 3: ");
20         c = Double.parseDouble(br.readLine());
21
22         if (a == b && b == c)
23             System.out.println("Triangulo Equilatero");
24
25         if ((a == b && b != c) || (a == c && a != b) || (b == c && b != a))
26             System.out.println("Triangulo Isosceles");
27
28         if (a != b && a != c && b != c)
29             System.out.println("Triangulo Escaleno");
30     }
31 }
```

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terminated> ejercicio_8_2_buffed [Java Application] C:\Program Files\Java\jdk-24\bin\javaw.exe (11 feb 2026 18:45:47 – 18:45:52 elapsed 0:00:04) [pid: 13788]

```
ngrese lado 1: 4
ngrese lado 2: 5
ngrese lado 3: 3
riangulo Escaleno
```

a07_a2243330342/src



```
import java.util.Scanner;

public class problema_8_2_scanner {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        double a, b, c;

        System.out.print("Ingrese lado 1: ");
        a = sc.nextDouble();

        System.out.print("Ingrese lado 2: ");
        b = sc.nextDouble();

        System.out.print("Ingrese lado 3: ");
        c = sc.nextDouble();

        if (a == b && b == c)
            System.out.println("Triangulo Equilatero");

        if ((a == b && b != c) || (a == c && a != b) || (b == c && b != a))
            System.out.println("Triangulo Isosceles");

        if (a != b && a != c && b != c)
            System.out.println("Triangulo Escaleno");
    }
}
```

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Run> problema_8_2_scanner [Java Application] C:\Program Files\Java\jdk-24\bin\javaw.exe (11 feb 2026 18:46:41 – 18:46:45 elapsed 0:00:04) [pid: 18628]

```
Ingrese lado 1: 4
Ingrese lado 2: 5
Ingrese lado 3: 4
Triangulo Isosceles
```



```
import javax.swing.JOptionPane;

public class problema_8_2_cuadrodialogo {

    public static void main(String[] args) {

        double a, b, c;

        a = Double.parseDouble(JOptionPane.showInputDialog("Ingrese lado 1:"));
        b = Double.parseDouble(JOptionPane.showInputDialog("Ingrese lado 2:"));
        c = Double.parseDouble(JOptionPane.showInputDialog("Ingrese lado 3:"));

        if (a == b && b == c)
            JOptionPane.showMessageDialog(null, "Triangulo Equilatero");
        if (a == b && b != c && b != a)
            JOptionPane.showMessageDialog(null, "Triangulo Isosceles");
        if (a != b && a != c && b != c)
            JOptionPane.showMessageDialog(null, "Triangulo Escaleno");
    }
}
```

```
1 import java.io.BufferedReader;
2 import java.io.InputStreamReader;
3 import java.io.IOException;
4
5 public class problema_8_3_buffed {
6
7     public static void main(String[] args) throws IOException {
8
9         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
10
11         double a, b, c;
12
13         System.out.print("Ingrese lado 1: ");
14         a = Double.parseDouble(br.readLine());
15
16         System.out.print("Ingrese lado 2: ");
17         b = Double.parseDouble(br.readLine());
18
19         System.out.print("Ingrese lado 3: ");
20         c = Double.parseDouble(br.readLine());
21
22         if (a == b) {
23             if (b == c) {
24                 System.out.println("Triangulo Equilatero");
25             } else {
26                 System.out.println("Triangulo Isosceles");
27             }
28         } else {
29             if (a == c) {
30                 System.out.println("Triangulo Isosceles");
31             } else {
32                 System.out.println("Triangulo Escaleno");
33             }
34         }
35     }
36 }
```

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minated> problema_8_3_buffed [Java Application] C:\Program Files\Java\jdk-24\bin\javaw.exe (11 feb 2026 18:47:41 – 18:47:45 elapsed 0:00:04) [pid: 21712]

```
Ingrese lado 1: 4
Ingrese lado 2: 3
Ingrese lado 3: 5
Triangulo Escaleno
```




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```
double a, b, c;
```

```
System.out.print("Ingrese lado 1: ");  
a = sc.nextDouble();
```

```
System.out.print("Ingrese lado 2: ");  
b = sc.nextDouble();
```

```
System.out.print("Ingrese lado 3: ");  
c = sc.nextDouble();
```

```
if (a == b) {  
    if (b == c) {  
        System.out.println("Triangulo Equilatero");  
    } else {  
        System.out.println("Triangulo Isosceles");  
    }  
} else {  
    if (a == c) {  
        System.out.println("Triangulo Isosceles");  
    } else {  
        if (b == c) {  
            System.out.println("Triangulo Isosceles");  
        } else {  
            System.out.println("Triangulo Escaleno");  
        }  
    }  
}
```

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minated> problema_8_3_scanner [Java Application] C:\Program Files\Java\jdk-24\bin\javaw.exe (11 feb 2026 18:47:59 – 18:48:05 elapsed 0:00:05) [pid: 13920]

```
ese lado 1: 3  
ese lado 2: 6  
ese lado 3: 4  
ngulo Escaleno
```

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;

public class problema_8_3_buffed {

    public static void main(String[] args) throws IOException {

        BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

        double a, b, c;

        System.out.print("Ingrese lado 1: ");
        a = Double.parseDouble(br.readLine());

        System.out.print("Ingrese lado 2: ");
        b = Double.parseDouble(br.readLine());

        System.out.print("Ingrese lado 3: ");
        c = Double.parseDouble(br.readLine());

        if (a == b) {
            if (b == c) {
                System.out.println("Triangulo Equilatero");
            } else {
                System.out.println("Triangulo Isosceles");
            }
        } else {
            if (a == c) {
                System.out.println("Triangulo Isosceles");
            } else {
                System.out.println("Triangulo Escaleno");
            }
        }
    }
}
```

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minated> problema_8_3_scanner [Java Application] C:\Program Files\Java\jdk-24\bin\javaw.exe (11 feb 2026 18:47:59 – 18:48:05 elapsed 0:00:05) [pid: 13920]

```
Ingrese lado 1: 3
Ingrese lado 2: 6
Ingrese lado 3: 4
Triangulo Escaleno
```



```
public static void main(String[] args) {  
  
    double a, b, c;  
  
    a = Double.parseDouble(JOptionPane.showInputDialog("Ingrese lado 1:"));  
    b = Double.parseDouble(JOptionPane.showInputDialog("Ingrese lado 2:"));  
    c = Double.parseDouble(JOptionPane.showInputDialog("Ingrese lado 3:"));|  
  
    if (a == b) {  
        if (b == c) {  
            JOptionPane.showMessageDialog(null, "Triangulo Equilatero");  
        } else {  
            JOptionPane.showMessageDialog(null, "Triangulo Isosceles");  
        }  
    } else {  
        if (a == c) {  
            JOptionPane.showMessageDialog(null, "Triangulo Isosceles");  
        } else {  
            if (b == c) {  
                JOptionPane.showMessageDialog(null, "Triangulo Isosceles");  
            } else {  
                JOptionPane.showMessageDialog(null, "Triangulo Escaleno");  
            }  
        }  
    }  
}
```