



Universidad Autónoma De Tamaulipas

Fundamentos de Programación

1-N

Practica 4

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Ejercicio1:

The screenshot shows a Java development environment with the following details:

- Projects:** a2241330016_practica4, FundamentosdeProgramacionJ, Prog_001
- Current File:** Ejercicio1.java
- Code Content:**

```
1 package a2241330016_practica4;
2 public class Ejercicio1 {
3     public static void main(String[] args) {
4         System.out.println("2 * 1 = 2 ");
5         System.out.println("2 * 2 = 4 ");
6         System.out.println("2 * 3 = 6 ");
7         System.out.println("2 * 4 = 8 ");
8         System.out.println("2 * 5 = 10 ");
9     }
10 }
```
- Output Window:** run:
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
BUILD SUCCESSFUL (total time: 0 seconds)

Ejercicio2:

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Project Explorer:** Projects x, showing a project named "a2241330016_practica4" with a Source Packages folder containing "Ejercicio1.java" and "Ejercicio2.java".
- Start Page:** Ejercicio2.java
- Code Editor:** Source tab, displaying the following Java code:

```
1 package a2241330016_practica4;
2 public class Ejercicio2 {
3     public static void main(String[] args) {
4         System.out.print ("2 * 1 = 22 ");
5         System.out.print ("2 * 2 = 42 ");
6         System.out.print ("2 * 3 = 62 ");
7         System.out.print ("2 * 4 = 82 ");
8         System.out.print ("2 * 5 = 10 ");
9     }
10 }
```
- Output Window:** Output - a2241330016_practica4 (run)
run:
2 * 1 = 22 2 * 2 = 42 2 * 3 = 62 2 * 4 = 82 2 * 5 = 10 BUILD SUCCESSFUL (total time: 0 seconds)

Ejercicio 3:

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Project Explorer:** Projects > a2241330016_practica4 > Source Packages > a2241330016_practica4 > Ejercicio1.java, Ejercicio2.java, Ejercicio3.java.
- Current File:** Ejercicio3.java
- Code Editor:** The code is as follows:

```
1 package a2241330016_practica4;
2 public class Ejercicio3 {
3     public static void main(String[] args) {
4         System.out.printf ("2 * 1 = 22 ");
5         System.out.printf ("2 * 2 = 42 ");
6         System.out.printf ("2 * 3 = 62 ");
7         System.out.printf ("2 * 4 = 82 ");
8         System.out.printf ("2 * 5 = 10 ");
9     }
10 }
```

- Output Window:** Output - a2241330016_practica4 (run)
run:
2 * 1 = 22 2 * 2 = 42 2 * 3 = 62 2 * 4 = 82 2 * 5 = 10 BUILD SUCCESSFUL (total time: 0 seconds)

Ejercicio 4:

The screenshot shows a Java development environment with the following details:

- Projects:** The project tree on the left shows a single project named "a2241330016_practica4". Inside it, there is a "Source Packages" folder containing a package named "a2241330016_practica4". This package contains four files: "Ejercicio1.java", "Ejercicio2.java", "Ejercicio3.java", and "Ejercicio4.java".
- Source Editor:** The main editor window displays the code for "Ejercicio4.java". The code prints the first five powers of 2 to the console.
- Output Window:** The "Output - a2241330016_practica4 (run)" window shows the execution results:

```
run:
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
BUILD SUCCESSFUL (total time: 0 seconds)
```

```
package a2241330016_practica4;
public class Ejercicio4 {
    public static void main(String[] args) {
        System.out.println("2 * 1 = "+(2*1));
        System.out.println("2 * 2 = "+(2*2));
        System.out.println("2 * 3 = "+(2*3));
        System.out.println("2 * 4 = "+(2*4));
        System.out.println("2 * 5 = "+(2*5));
    }
}
```

Ejercicio 5:

The screenshot shows the Apache NetBeans IDE interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help, and a status bar indicating "a2241330016_practica4 - Apache NetBeans IDE 20" with memory usage "224.0/380.0MB".

The left sidebar displays the "Projects" view with a tree structure for the project "a2241330016_practica4". Under "Source Packages", there is a folder "a2241330016_practica4" containing files Ejercicio1.java, Ejercicio2.java, Ejercicio3.java, Ejercicio4.java, and Ejercicio5.java. Other sections include "Libraries", "FundamentosdeProgramacion", and "Prog_001".

The main workspace shows the "Start Page" with the file "Ejercicio5.java" open. The code is as follows:

```

1 package a2241330016_practica4;
2 public class Ejercicio5 {
3     public static void main(String[] args) {
4         System.out.print("2 * 1 = "+(2*1));
5         System.out.println();
6         System.out.print("2 * 2 = "+(2*2));
7         System.out.print("2 * 3 = "+(2*3));
8         System.out.print("2 * 4 = "+(2*4));
9         System.out.print("2 * 5 = "+(2*5));
10    }
11 }

```

The output window at the bottom shows the results of running the program:

```

run:
2 * 1 = 2
2 * 2 = 42 * 3 = 62 * 4 = 82 * 5 = 10BUILD SUCCESSFUL (total time: 0 seconds)

```

Ejercicio 6:

The screenshot shows the Apache NetBeans IDE interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help, and a status bar indicating "a2241330016_practica4 - Apache NetBeans IDE 20" with memory usage "249.5/380.0MB".

The left sidebar displays the "Projects" view with a tree structure for the project "a2241330016_practica4". Under "Source Packages", there is a folder "a2241330016_practica4" containing files Ejercicio1.java, Ejercicio2.java, Ejercicio3.java, Ejercicio4.java, Ejercicio5.java, and Ejercicio6.java. Other sections include "Libraries", "FundamentosdeProgramacion", and "Prog_001".

The main workspace shows the "Start Page" with the file "Ejercicio6.java" open. The code is as follows:

```

1 package a2241330016_practica4;
2 public class Ejercicio6 {
3     public static void main(String[] args) {
4         System.out.println("Coca Cola de lata -> $15");
5         System.out.print("Cantidad vendida 10 ");
6         System.out.print(" SubTotal es -> " + (15*10) + " el iva es -> " + ((15*10)*0.16));
7         System.out.println();
8         System.out.println("El total es -> " + ((15*10)+((15*10)*0.16)));
9     }
10 }

```

The output window at the bottom shows the results of running the program:

```

run:
Coca Cola de lata -> $15
Cantidad vendida 10 SubTotal es -> 150 el iva es -> 24.0
El total es -> 174.0
BUILD SUCCESSFUL (total time: 0 seconds)

```

Ejercicio 7:

The screenshot shows the Apache NetBeans IDE interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help, and a search bar. The title bar indicates "a2241330016_practica4 - Apache NetBeans IDE 20". The left sidebar displays the "Projects" tree, which contains a package named "a2241330016_practica4" with several source files: Ejercicio1.java, Ejercicio2.java, Ejercicio3.java, Ejercicio4.java, Ejercicio5.java, Ejercicio6.java, and Ejercicio7.java. The main workspace shows the code for "Ejercicio7.java". The code prints the price of a can of soda, the quantity sold, the subtotal, and the total including tax.

```

1 package a2241330016_practica4;
2 public class Ejercicio7 {
3     public static void main(String[] args) {
4         System.out.println("Cocal cola de lata -> 15.45");
5         System.out.print("Cantidad vendida 12 ");
6         System.out.print(" el Subtotal es->" + (15.45*12) + " el iva es -> " + ((15.45*12)*0.16));
7         System.out.println();
8         System.out.println("El total es-> " + ((15.45*12)+((15.45*12)*0.16)));
9     }
10 }
11
12
13

```

The output window at the bottom shows the execution results:

```

Output - a2241330016_practica4 (run)
run:
Cocal cola de lata -> 15.45
Cantidad vendida 12 el Subtotal es->185.39999999999998 el iva es -> 29.663999999999996
El total es-> 215.06399999999996
BUILD SUCCESSFUL (total time: 0 seconds)

```

Ejercicio 8:

The screenshot shows the Apache NetBeans IDE interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help, and a search bar. The title bar indicates "a2241330016_practica4 - Apache NetBeans IDE 20". The left sidebar displays the "Projects" tree, which contains a package named "a2241330016_practica4" with several source files: Ejercicio1.java, Ejercicio2.java, Ejercicio3.java, Ejercicio4.java, Ejercicio5.java, Ejercicio6.java, Ejercicio7.java, and Ejercicio8.java. The main workspace shows the code for "Ejercicio8.java". The code prints the price of a can of soda, the quantity sold, the subtotal, and the total including tax, using printf for formatted output.

```

1 package a2241330016_practica4;
2 public class Ejercicio8 {
3     public static void main(String[] args) {
4         System.out.println("Cocal cola de lata -> 15.45");
5         System.out.print("Cantidad vendida 12 ");
6         System.out.printf(" el SubTotal es -> %.4f el iva es -> %.2f El total es -> %.2f", (15.45*12), ((15.45*12)*0.16),
7             ((15.45*12)+((15.45*12)*0.16)));
8     }
9 }
10
11

```

The output window at the bottom shows the execution results:

```

Output - a2241330016_practica4 (run)
run:
Cocal cola de lata -> 15.45
Cantidad vendida 12 el SubTotal es -> 185.4000 el iva es -> 29.66 El total es -> 215.06BUILD SUCCESSFUL (total time: 0 seconds)

```

Ejercicio 9:

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help a2241330016_practica4 - Apache NetBeans IDE 20 Search (Ctrl+F)

Projects x Start Page x Ejercicio9.java x

Source History

```
1 package a2241330016_practica4;
2 public class Ejercicio9 {
3     public static void main(String[] args) {
4         System.out.print("Coca cola de lata -> 15.45 \n");
5         System.out.println("Cantidad vendida % SubTotal Iva % Total");
6         System.out.printf("%d \t %.4f \t %.2f \t %.2f",12,(15.45*12),((15.45*12)*0.16),((15.45*12)+((15.45*12)*0.16)));
7     }
8 }
9 }
10 }
11 }
```

Output - a2241330016_practica4 (run)

run:
Coca cola de lata -> 15.45
Cantidad vendida % SubTotal Iva % Total
12 185.4000 29.66 215.06BUILD SUCCESSFUL (total time: 0 seconds)