

```
C:\WINDOWS\system32\CMD x + v - □ ×
Microsoft Windows [Versión 10.0.26100.3775]
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C:\Users\MEDAC_T>cd Desktop

C:\Users\MEDAC_T\Desktop>cd PracticaPuntosYSegmentos

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git init
Initialized empty Git repository in C:/Users/MEDAC_T/Desktop/PracticaPuntosYSegmentos/.git/
```

```
C:\WINDOWS\system32\CMD x + v - □ ×

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   .gitignore
    new file:   PracticaPuntosYSegmentos/.classpath
    new file:   PracticaPuntosYSegmentos/.gitignore
    new file:   PracticaPuntosYSegmentos/.project
    new file:   PracticaPuntosYSegmentos/.settings/org.eclipse.core.resources.prefs
    new file:   PracticaPuntosYSegmentos/.settings/org.eclipse.jdt.core.prefs

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git commit -m "first commit"
[main (root-commit) 33998d0] first commit
 6 files changed, 42 insertions(+)
 create mode 100644 .gitignore
 create mode 100644 PracticaPuntosYSegmentos/.classpath
 create mode 100644 PracticaPuntosYSegmentos/.gitignore
 create mode 100644 PracticaPuntosYSegmentos/.project
 create mode 100644 PracticaPuntosYSegmentos/.settings/org.eclipse.core.resources.prefs
 create mode 100644 PracticaPuntosYSegmentos/.settings/org.eclipse.jdt.core.prefs

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git branch -M main

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git remote add origin http://github.com/p2do/PracticaPuntosYSegmentos.git
```

```
C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git push -u origin main
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (10/10), 1.20 KiB | 411.00 KiB/s, done.
Total 10 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/p2do/PracticaPuntosYSegmentos.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>|
```

CREACIÓN CLASE PUNTO:

```
Microsoft Windows [Version 10.0.26100.3775]
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C:\Users\MEDAC_T>cd Desktop

C:\Users\MEDAC_T\Desktop>cd PracticaPuntosYSegmentos

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git add .

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   PracticaPuntosYSegmentos/src/clases/Punto.java

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git commit -m "Creación de
clase Punto"
[main a710b91] Creación de clase Punto
1 file changed, 51 insertions(+)
create mode 100644 PracticaPuntosYSegmentos/src/clases/Punto.java

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>|
```

CREACIÓN CLASE SEGMENTO:

```
C:\Users\MEDAC_T\Desktop>cd PracticaPuntosYSegmentos

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git add .
warning: in the working copy of 'PracticaPuntosYSegmentos/doc/legal/jquery.md', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'PracticaPuntosYSegmentos/doc/legal/jqueryUI.md', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'PracticaPuntosYSegmentos/doc/script-dir/jquery-3.7.1.min.js', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'PracticaPuntosYSegmentos/doc/script-dir/jquery-ui.min.css', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'PracticaPuntosYSegmentos/doc/script-dir/jquery-ui.min.js', LF will be replaced by CRLF the next time Git touches it

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   PracticaPuntosYSegmentos/doc/allclasses-index.html
        new file:   PracticaPuntosYSegmentos/doc/allpackages-index.html
        new file:   PracticaPuntosYSegmentos/doc/clases/Punto.html
        new file:   PracticaPuntosYSegmentos/doc/clases/Segmento.html
        new file:   PracticaPuntosYSegmentos/doc/clases/class-use/Punto.html
        new file:   PracticaPuntosYSegmentos/doc/clases/class-use/Segmento.html
        new file:   PracticaPuntosYSegmentos/doc/clases/package-summary.html
        new file:   PracticaPuntosYSegmentos/doc/clases/package-tree.html
        new file:   PracticaPuntosYSegmentos/doc/clases/package-use.html
        new file:   PracticaPuntosYSegmentos/doc/copy.svg
        new file:   PracticaPuntosYSegmentos/doc/element-list
        new file:   PracticaPuntosYSegmentos/doc/help-doc.html
        new file:   PracticaPuntosYSegmentos/doc/index-files/index-1.html
        new file:   PracticaPuntosYSegmentos/doc/index-files/index-2.html
        new file:   PracticaPuntosYSegmentos/doc/index-files/index-3.html
        new file:   PracticaPuntosYSegmentos/doc/index-files/index-4.html
        new file:   PracticaPuntosYSegmentos/doc/index-files/index-5.html
        new file:   PracticaPuntosYSegmentos/doc/index-files/index-6.html
        new file:   PracticaPuntosYSegmentos/doc/index-files/index-7.html
        new file:   PracticaPuntosYSegmentos/doc/index-files/index-8.html
        new file:   PracticaPuntosYSegmentos/doc/index.html
        new file:   PracticaPuntosYSegmentos/doc/legal/ADDITIONAL_LICENSE_INFO
        new file:   PracticaPuntosYSegmentos/doc/legal/ASSEMBLY_EXCEPTION
        new file:   PracticaPuntosYSegmentos/doc/legal/LICENSE
```

```
C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git commit -m "Creación de clase Segmento y del Javadoc"
[main d6efb33] Creación de clase Segmento y del Javadoc
 44 files changed, 4434 insertions(+)
 create mode 100644 PracticaPuntosYSegmentos/doc/allclasses-index.html
 create mode 100644 PracticaPuntosYSegmentos/doc/allpackages-index.html
 create mode 100644 PracticaPuntosYSegmentos/doc/clases/Punto.html
 create mode 100644 PracticaPuntosYSegmentos/doc/clases/Segmento.html
 create mode 100644 PracticaPuntosYSegmentos/doc/clases/class-use/Punto.html
 create mode 100644 PracticaPuntosYSegmentos/doc/clases/class-use/Segmento.html
 create mode 100644 PracticaPuntosYSegmentos/doc/clases/package-summary.html
 create mode 100644 PracticaPuntosYSegmentos/doc/clases/package-tree.html
 create mode 100644 PracticaPuntosYSegmentos/doc/clases/package-use.html
 create mode 100644 PracticaPuntosYSegmentos/doc/copy.svg
 create mode 100644 PracticaPuntosYSegmentos/doc/element-list
 create mode 100644 PracticaPuntosYSegmentos/doc/help-doc.html
 create mode 100644 PracticaPuntosYSegmentos/doc/index-files/index-1.html
 create mode 100644 PracticaPuntosYSegmentos/doc/index-files/index-2.html
 create mode 100644 PracticaPuntosYSegmentos/doc/index-files/index-3.html
 create mode 100644 PracticaPuntosYSegmentos/doc/index-files/index-4.html
 create mode 100644 PracticaPuntosYSegmentos/doc/index-files/index-5.html
 create mode 100644 PracticaPuntosYSegmentos/doc/index-files/index-6.html
 create mode 100644 PracticaPuntosYSegmentos/doc/index-files/index-7.html
 create mode 100644 PracticaPuntosYSegmentos/doc/index-files/index-8.html
 create mode 100644 PracticaPuntosYSegmentos/doc/index.html
 create mode 100644 PracticaPuntosYSegmentos/doc/legal/ADDITIONAL_LICENSE_INFO
 create mode 100644 PracticaPuntosYSegmentos/doc/legal/ASSEMBLY_EXCEPTION
 create mode 100644 PracticaPuntosYSegmentos/doc/legal/LICENSE
 create mode 100644 PracticaPuntosYSegmentos/doc/legal/jquery.md
 create mode 100644 PracticaPuntosYSegmentos/doc/legal/jqueryUI.md
 create mode 100644 PracticaPuntosYSegmentos/doc/link.svg
 create mode 100644 PracticaPuntosYSegmentos/doc/member-search-index.js
 create mode 100644 PracticaPuntosYSegmentos/doc/module-search-index.js
 create mode 100644 PracticaPuntosYSegmentos/doc/overview-tree.html
 create mode 100644 PracticaPuntosYSegmentos/doc/package-search-index.js
```

```
create mode 100644 PracticaPuntosYSegmentos/src/clases/Segmento.java

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>git push
Enumerating objects: 64, done.
Counting objects: 100% (64/64), done.
Delta compression using up to 8 threads
Compressing objects: 100% (53/53), done.
Writing objects: 100% (62/62), 78.73 KiB | 4.92 MiB/s, done.
Total 62 (delta 21), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (21/21), completed with 1 local object.
To https://github.com/p2do/PracticaPuntosYSegmentos.git
   33998d0..d6efb33  main -> main

C:\Users\MEDAC_T\Desktop\PracticaPuntosYSegmentos>
```

Depuracion:

The image shows a screenshot of an IDE with two panels. The top panel displays the source code of a Java program, and the bottom panel shows the same code with a debugger window open on the right.

Source Code (Principal.java):

```
1 package app;
2
3 import clases.Punto;
4
5
6 public class Principal {
7
8     public static void main(String[] args) {
9
10        Punto p1=new Punto(aleatorio(),aleatorio());
11        Punto p2=new Punto(aleatorio(),aleatorio());
12        Punto p3=new Punto(aleatorio(),aleatorio());
13        Punto p4=new Punto(aleatorio(),aleatorio());
14
15        Segmento s1= new Segmento(p1,p2);
16        Segmento s2=new Segmento(p3,p4);
17
18    }
19
20    public static int aleatorio() {
21        int aleatorio=0+(int)(Math.random()*(10-0+1));
22        return aleatorio;
23    }
24
25 }
26
```

Debugger Window:

The debugger window shows the state of the program at the current line of execution. It displays the following variables and their values:

Name	Value
<init>() returned	(No explicit return value)
args	String[0] (id=20)
p1	Punto (id=39)
x	3
y	9
p2	Punto (id=40)
x	7
y	9

The bottom panel shows the same source code as the top panel, but with the debugger window open on the right. The code is identical to the one shown above.

Debugger window showing the execution of the `Principal` class. The code is as follows:

```
1 package app;
2
3 import classes.Punto;
4
5 public class Principal {
6
7     public static void main(String[] args) {
8
9         Punto p1=new Punto(aleatorio(),aleatorio());
10        Punto p2=new Punto(aleatorio(),aleatorio());
11        Punto p3=new Punto(aleatorio(),aleatorio());
12        Punto p4=new Punto(aleatorio(),aleatorio());
13
14        Segmento s1= new Segmento(p1,p2);
15        Segmento s2=new Segmento(p3,p4);
16
17    }
18
19    public static int aleatorio() {
20        int aleatorio=0+(int)(Math.random()*(10-0+1));
21        return aleatorio;
22    }
23 }
24
25
26
```

The Variables window shows the state of the program:

Name	Value
<init>() returned	(No explicit return value)
args	String[0] (id=20)
p1	Punto (id=39)
x	3
y	9
p2	Punto (id=40)
x	7
y	9
p3	Punto (id=41)
x	0
y	2
p4	Punto (id=42)
x	7
y	0

```
1 package app;
2
3 import classes.Punto;
4
5 public class Principal {
6
7     public static void main(String[] args) {
8
9         Punto p1=new Punto(aleatorio(),aleatorio());
10        Punto p2=new Punto(aleatorio(),aleatorio());
11        Punto p3=new Punto(aleatorio(),aleatorio());
12        Punto p4=new Punto(aleatorio(),aleatorio());
13
14        Segmento s1= new Segmento(p1,p2);
15        Segmento s2=new Segmento(p3,p4);
16
17    }
18
19    public static int aleatorio() {
20        int aleatorio=0+(int)(Math.random()*(10-0+1));
21        return aleatorio;
22    }
23 }
24
25
26
```

Debugger window showing the execution of the `Principal` class. The code is as follows:

```
1 package app;
2
3 import classes.Punto;
4
5 public class Principal {
6
7     public static void main(String[] args) {
8
9         Punto p1=new Punto(aleatorio(),aleatorio());
10        Punto p2=new Punto(aleatorio(),aleatorio());
11        Punto p3=new Punto(aleatorio(),aleatorio());
12        Punto p4=new Punto(aleatorio(),aleatorio());
13
14        Segmento s1= new Segmento(p1,p2);
15        Segmento s2=new Segmento(p3,p4);
16
17    }
18
19    public static int aleatorio() {
20        int aleatorio=0+(int)(Math.random()*(10-0+1));
21        return aleatorio;
22    }
23 }
24
25
26
```

The Variables window shows the state of the program:

Name	Value
<init>() returned	(No explicit return value)
args	String[0] (id=20)
p1	Punto (id=39)
x	3
y	9
p2	Punto (id=40)
x	7
y	9
p3	Punto (id=41)
x	0
y	2
p4	Punto (id=42)
x	7
y	0
s1	Segmento (id=46)
a	Punto (id=39)
x	3
y	9
b	Punto (id=40)
x	7
y	9

```
package app;

import classes.Punto;

public class Principal {

    public static void main(String[] args) {

        Punto p1=new Punto(aleatorio(),aleatorio());
        Punto p2=new Punto(aleatorio(),aleatorio());
        Punto p3=new Punto(aleatorio(),aleatorio());
        Punto p4=new Punto(aleatorio(),aleatorio());

        Segmento s1= new Segmento(p1,p2);
        Segmento s2= new Segmento(p3,p4);

    }

    public static int aleatorio() {
        int aleatorio=0+(int)(Math.random()*10+1);
        return aleatorio;
    }

}
```

Name	Value
<init>() returned	(No explicit return value)
args	String[0] (id=20)
p1	Punto (id=39)
x	3
y	9
p2	Punto (id=40)
x	7
y	9
p3	Punto (id=41)
x	0
y	2
p4	Punto (id=42)
x	7
y	0
s1	Segmento (id=46)
a	Punto (id=39)
x	3
y	9
b	Punto (id=40)
x	7
y	9
s2	Segmento (id=47)
a	Punto (id=41)
x	0
y	2
b	Punto (id=42)
x	7
y	0