

Atelier Devops

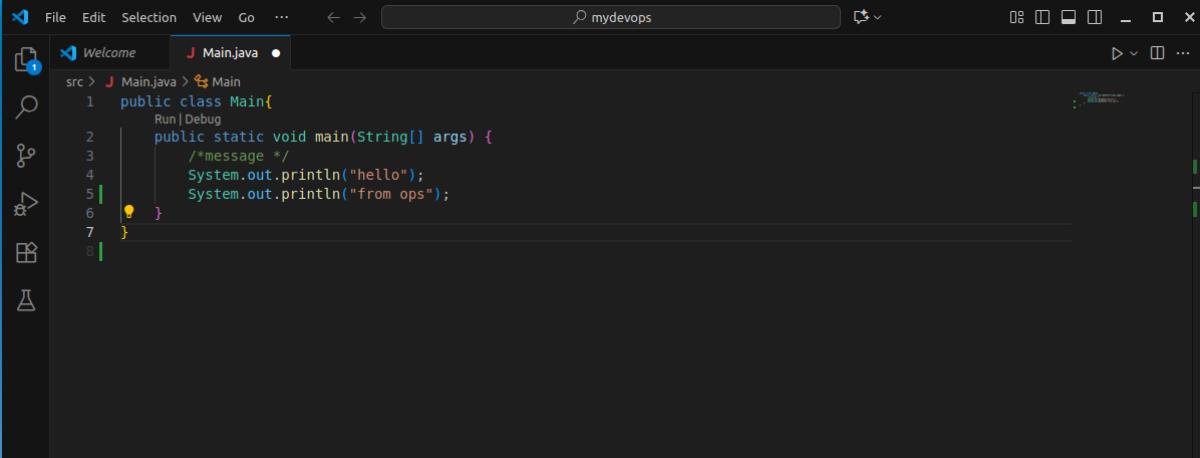
(ce travail est réalisé par Ahmed kamel benzid, ahmed bouafif, ons nasri)

1) Octopus:



```
src > J Main.java > Main > main(String[])
1 public class Main{
2     public static void main(String[] args) {
3         /*message */
4         System.out.println("hello");
5         System.out.println("from dev");
6     }
7 }
8
```

```
● vboxuser@UBUNTU:~/Desktop/mydevops$ git checkout dev
Switched to branch 'dev'
● vboxuser@UBUNTU:~/Desktop/mydevops$ git add .
● vboxuser@UBUNTU:~/Desktop/mydevops$ git commit -m "changeeeeeement dans dev"
[dev 81ff5a9] changeeeeeement dans dev
 1 file changed, 2 insertions(+), 1 deletion(-)
```



```
src > J Main.java > Main > main(String[])
1 public class Main{
2     public static void main(String[] args) {
3         /*message */
4         System.out.println("hello");
5         System.out.println("from ops");
6     }
7 }
8
```

```
1 file changed, 2 insertions(+), 1 deletion(-)
● vboxuser@UBUNTU:~/Desktop/mydevops$ git checkout ops
Switched to branch 'ops'
● vboxuser@UBUNTU:~/Desktop/mydevops$ git add .
● vboxuser@UBUNTU:~/Desktop/mydevops$ git commit -m "from ops"
[ops 8633648] from ops
 1 file changed, 1 insertion(+)
```

The screenshot shows the VS Code interface with a code editor containing Java code. A merge conflict is indicated by colored highlights: green for 'plCFP4' and blue for 'BVS5N7'. The code editor has a status bar at the bottom with 'PROBLEMS 1' and a 'Resolve in Merge Editor' button.

```

src > J Main.java > ...
1 public class Main{
2     Run|Debug
3     public static void main(String[] args) {
4         /*message */
5         System.out.println("hello");
6     =====
7     System.out.println("from dev");
8     =====
9     System.out.println("from ops");
10    >>>> .merge_file_BVS5N7 (Incoming Change)
11 }
12

```

The terminal below shows the user attempting to merge the 'ops' branch into 'master' but encountering a merge conflict due to a content conflict in 'src/Main.java'.

```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
1 file changed, 1 insertion(+)
• vboxuser@UBUNTU:~/Desktop/mydevops$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
• vboxuser@UBUNTU:~/Desktop/mydevops$ git merge -s octopus dev ops
Fast-forwarding to: dev
Trying simple merge with ops
Simple merge did not work, trying automatic merge.
Auto-merging src/Main.java
ERROR: content conflict in src/Main.java
fatal: merge program failed
Automatic merge failed; fix conflicts and then commit the result.
◦ vboxuser@UBUNTU:~/Desktop/mydevops$ 

```

2) Rebase:

The screenshot shows the VS Code interface with a code editor containing Java code and a terminal window. The terminal shows the user performing a rebase operation on the 'TP1' branch.

```

File Edit Selection ...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
• vboxuser@ubuntu:~/Devops/TP1$ git branch
* feature1
  feature2
  master
• vboxuser@ubuntu:~/Devops/TP1$ git checkout feature2
Switched to branch 'feature2'
• vboxuser@ubuntu:~/Devops/TP1$ git add .
• vboxuser@ubuntu:~/Devops/TP1$ git commit -m "tested by feature2"
[feature2 69e9963] tested by feature2
  1 file changed, 3 insertions(+), 3 deletions(-)
• vboxuser@ubuntu:~/Devops/TP1$ git checkout master
Switched to branch 'master'
◦ vboxuser@ubuntu:~/Devops/TP1$ 

```

C'est le code dans le master

```

test.java
1 package application;
2
3 public class test {
4     public test() {
5     }
6
7     Run|Debug
8     public static void main(String[] var0) {
9         System.out.println("Hello from master");
10        sayHelloFeature();
11    }
12    public static void sayHelloFeature() {
13        System.out.println("Hello from feature1!");
14    }
15}
16
17
18
19

```

Oct 9 21:55

Welcome to Copilot

Let's get started

Add context (#), extensions (@), command:

Build Workspace Show Config

C'est le code dans la branche feature1

```

test.java
1 package application;
2
3 public class test {
4     public test() {
5     }
6
7     Run|Debug
8     public static void main(String[] var0) {
9         System.out.println("Hello from master");
10        squareNumber(n:5);
11    }
12    public static void squareNumber(int n) {
13        System.out.println("Square of " + n + " is " + (n * n));
14    }
15}
16
17
18
19

```

Oct 9 21:47

Welcome to Copilot

Let's get started

Add context (#), extensions (@), command:

Build Workspace Show Config

Review AI output carefully before use.

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

bash - TP1
● vboxuser@ubuntuu:~/Devops/TP1$ git branch feature2
● vboxuser@ubuntuu:~/Devops/TP1$ git checkout
● vboxuser@ubuntuu:~/Devops/TP1$ git branch
* feature1
  feature2
  master
● vboxuser@ubuntuu:~/Devops/TP1$ git checkout feature2
Switched to branch 'feature2'
● vboxuser@ubuntuu:~/Devops/TP1$ git add .
● vboxuser@ubuntuu:~/Devops/TP1$ git commit -m "tested by feature2"
[feature2 69e9963] tested by feature2
  1 file changed, 3 insertions(+), 3 deletions(-)
● vboxuser@ubuntuu:~/Devops/TP1$ 

```

onnsnari (14 minutes ago) Ln 16, Col 2 Spaces: 4 UTF-8 LF () Java

C'est le code dans la branche feature2

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
● vboxuser@ubuntuu:~/Devops/TP1$ git log --oneline --graph --all
* 69e9963 (feature2) tested by feature2
* aa359a8 (feature1) tested by feature1
* ab434c8 (HEAD -> master) tested by master
● vboxuser@ubuntuu:~/Devops/TP1$ git checkout feature1
Switched to branch 'feature1'.
● vboxuser@ubuntuu:~/Devops/TP1$ git rebase master
Current branch feature1 is up to date.
● vboxuser@ubuntuu:~/Devops/TP1$ git log --oneline --graph --all
* 69e9963 (feature2) tested by feature2
* aa359a8 (HEAD -> feature1) tested by feature1
* ab434c8 (master) tested by master
● vboxuser@ubuntuu:~/Devops/TP1$ 

```

onnsnari (22 minutes ago) Ln 16, Col 2 Spaces: 4 UTF-8 LF () Java

en se basant dans feature1 et fusionner le master avec rebase on remarque que head pointe sur feature1 à la place de master.

3) Squash:

The screenshot shows the Visual Studio Code interface. On the left is the sidebar with icons for file operations like Open, Save, Find, and Copy/Paste. The main editor window displays a Java file named `test.java` with the following code:

```
TP1 > src > application > J test.java > test
1 package application;
2
3 public class test {
4
5     public test() {
6
7         Run|Debug
8         public static void main(String[] var0) {
9             System.out.println("Hello from master");
10            squareNumber(n:5);
11        }
12        public static void squareNumber(int n) {
13            System.out.println("Square of " + n + " is" + (n* n));
14        }
15    }
16 }
```

The terminal at the bottom shows the output of a git rebase command:

```
GNU nano 6.2          /home/vboxuser/Devops/TP1/.git/rebase-merge/git-rebase-todo
pick aa359a8 tested by feature1
pick 69e9963 tested by feature2
#
# Rebase ab434c8..69e9963 onto ab434c8 (2 commands)
#
# Commands:
# p, pick <commit> = use commit
# r, reword <commit> = use commit, but edit the commit message
# e, edit <commit> = use commit, but stop for amending
```

The status bar at the bottom indicates the file is Java Ready.

après écrire git rebase -i master un fichier nano s'ouvre (on n'a fait qu'un seul commit par branche)

The screenshot shows the Visual Studio Code interface. The terminal at the bottom shows the output of a git log command after a rebase:

```
vboxuser@ubuntu:~/Devops/TP1$ git log --oneline --graph --all
* ale9997 (master) second commit master
| * a4c48b4 (feature1) second commit feature1
| | * aa359a8 tested by feature1
| |
| * fdf20b7 (HEAD -> feature2) second commit feature2
| | * 2e68bec tested by feature1
| |
| * ab434c8 tested by master
* vboxuser@ubuntu:~/Devops/TP1$ git checkout master
Switched to branch 'master'
vboxuser@ubuntu:~/Devops/TP1$
```

The status bar at the bottom indicates the file is Java Ready.

code de master

The screenshot shows a Visual Studio Code interface with the following details:

- Title Bar:** Activities, Oct 9 22:42, Devops
- Sidebar:** Includes icons for File Explorer, Search, Problems, and Terminal.
- Active Editor:** A Java file named `test.java` containing the following code:

```
TP1 > src > application > J test.java > test
1 package application;
2
3 public class test {
4
5     public test() {
6     }
7
8     Run | Debug
9     public static void main(String[] var0) {
10         System.out.println("Hello from master");
11         sayHelloFeature();
12         System.out.println("feature1");
13     }
14     public static void sayHelloFeature() {
15         System.out.println("Hello from feature1!");
16     }
17 }
18 }
```
- Terminal:** Shows the output of `git log --oneline --graph --all` and `git checkout` commands.

```
vboxuser@ubuntu:~/Devops/TP1$ git log --oneline --graph --all
| * a4c4b4 (feature1) second commit feature1
| * aa359a8 tested by feature1
|
| * fdf20b7 (HEAD -> feature2) second commit feature2
| * 2e68bec tested by feature1
|
* ab434c8 tested by master
• vboxuser@ubuntu:~/Devops/TP1$ git checkout master
Switched to branch 'master'
• vboxuser@ubuntu:~/Devops/TP1$ git checkout feature1
Switched to branch 'feature1'
vboxuser@ubuntu:~/Devops/TP1$
```
- Right Panel:** Welcome to Copilot, Let's get started, Add context (#), extensions (@), commands, Build Workspace, Show Config, and a note to Review AI output carefully before use.

Code de la branche feature1

The screenshot shows a Visual Studio Code interface with the following details:

- Activity Bar:** On the left, there are icons for various tools: Firefox Web Browser, Run, Terminal, Git, Find, Replace, and Help.
- File Explorer:** Shows a file tree with a Java file named `test.java` under the `src/application` directory.
- Code Editor:** Displays the content of `test.java`:

```
1 package application;
2
3 public class test {
4
5     public test() {
6
7
8         Run|Debug
9         public static void main(String[] var0) {
10             System.out.println("Hello from master");
11             squareNumber(n:5);
12             System.out.println("feature2");
13         }
14         public static void squareNumber(int n) {
15             System.out.println("Square of" + n + "is" + (n*n));
16         }
17     }
18
19 }
```
- Terminal:** Shows a terminal session with the command `git rebase -i master`. The output indicates that the user has rebased their local branch onto the master branch, as shown by the commit history:

```
vboxuser@ubuntuu:~/Devops/TP1$ git log --oneline --graph --all
* a1e9971 (master) second commit master
| * a4c48b4 (feature1) second commit feature1
| * aa359a8 tested by feature1
|/
| * fdf20b7 (HEAD -> feature2) second commit feature2
| * 2e68bec tested by feature1
|/
| * ab434c8 tested by master
vboxuser@ubuntuu:~/Devops/TP1$
```
- Right Panel:** A "Welcome to Copilot" panel with a "Let's get started" button and a "Review AI output carefully before use." note.

Code de la branche feature2

voir l'arborescence.