

NAMA : IRNA RAFIDAH

KELOMPOK : FEUI09

IMPLEMENTASI GRADLE

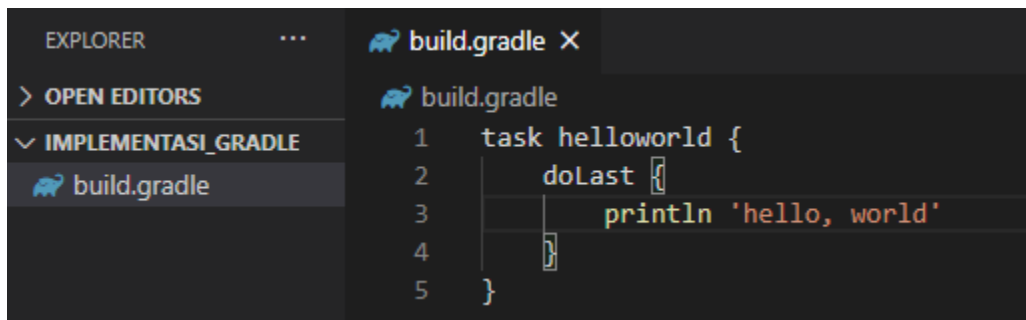
Bagian 5

Gradle Build Script

"Hello World" Gradle VS Code

> IMPLEMENTASI_GRADLE

"Hello World" Gradle VS Code (2)



```
EXPLORER    ...
> OPEN EDITORS
v IMPLEMENTASI_GRADLE
  build.gradle

build.gradle
1  task helloworld {
2      doLast {
3          println 'hello, world'
4      }
5  }
```

"Hello World" Gradle VS Code(3)

```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q helloworld
hello, world
```

“Hello World” Gradle VS Code(4)

```
build.gradle
1  task hello {
2      doLast {
3          println 'hello,'
4      }
5  }
6
7  task world(dependsOn:hello) {
8      doLast {
9          println "world"
10     }
11 }
```

```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q world
hello,
world
```

Gradle Command-line Options

```
C:\Windows\System32\cmd.exe
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -h
USAGE: gradle [option...] [task...]

-?, -h, --help           Shows this help message.
-a, --no-rebuild          Do not rebuild project dependencies.
-b, --build-file          Specify the build file.
--build-cache            Enables the Gradle build cache. Gradle will try to reuse outputs from previous builds.
-c, --settings-file      Specify the settings file.
--configuration-cache     Enables the configuration cache. Gradle will try to reuse the build configuration from previous builds. [incubating]
--configuration-cache-problems Configures how the configuration cache handles problems (fail or warn). Defaults to fail. [incubating]
--configure-on-demand     Configure necessary projects only. Gradle will attempt to reduce configuration time for large multi-project builds. [incubating]
--console                Specifies which type of console output to generate. Values are 'plain', 'auto' (default), 'rich' or 'verbose'.
--continue               Continue task execution after a task failure.
-D, --system-prop        Set system property of the JVM (e.g. -Dmyprop=myvalue).
-d, --debug               Log in debug mode (includes normal stacktrace).
```

Gradle Command-line Options (3)

C:\Windows\System32\cmd.exe

C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q tasks --all

Tasks runnable from root project

Build Setup tasks

init - Initializes a new Gradle build.
wrapper - Generates Gradle wrapper files.

Help tasks

buildEnvironment - Displays all buildscript dependencies declared in root project 'implementasi_gradle'.
components - Displays the components produced by root project 'implementasi_gradle'. [incubating]
dependencies - Displays all dependencies declared in root project 'implementasi_gradle'.
dependencyInsight - Displays the insight into a specific dependency in root project 'implementasi_gradle'.
dependentComponents - Displays the dependent components of components in root project 'implementasi_gradle'. [incubating]
help - Displays a help message.
model - Displays the configuration model of root project 'implementasi_gradle'. [incubating]
outgoingVariants - Displays the outgoing variants of root project 'implementasi_gradle'.
projects - Displays the sub-projects of root project 'implementasi_gradle'.
properties - Displays the properties of root project 'implementasi_gradle'.
tasks - Displays the tasks runnable from root project 'implementasi_gradle'.

Other tasks

hello
prepareKotlinBuildScriptModel
world

C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>

Gradle Command-line Options (4)

```
C:\Windows\System32\cmd.exe

C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle help --task world

> Task :help
Detailed task information for world

Path
    :world

Type
    Task (org.gradle.api.Task)

Description
    -

Group
    -

BUILD SUCCESSFUL in 19s
1 actionable task: 1 executed
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>

C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle help --task hello

> Task :help
Detailed task information for hello

Path
    :hello

Type
    Task (org.gradle.api.Task)

Description
    -

Group
    -

BUILD SUCCESSFUL in 19s
1 actionable task: 1 executed
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>
```

Gradle Command-line Options (5)

C:\Windows\System32\cmd.exe

C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q world --profile
hello,
world
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>

irawan suharto > irawan (C:) > Users > LAB_TI_33 > VSCodeFile > implementasi_gradle > build > reports > profile

| <input type="checkbox"/> | Name | Date modified | Type | Size |
|--------------------------|----------------------------------|--------------------|-------------------|------|
| | css | 10/3/2020 12:46 PM | File folder | |
| | js | 10/3/2020 12:46 PM | File folder | |
| | profile-2020-10-03-12-46-22.html | 10/3/2020 12:46 PM | Chrome HTML Do... | 4 KB |

Gradle Command-line Options (6)

Thematic Academy Digital Talent x Profile report x +

File | C:/Users/LAB_TI_33/VSCodeFile/implementasi_gradle/build/reports/profile/profile-2020-10-03-12-46-22.html

SIPS SI ATK&FORMULIR WhatsApp Upload disini jika s... Menampilkan Data... Add (+/-) Button N... Cara membuat for... Boot

Profile report

Profiled build: world

Started on: 2020/10/03 - 12:46:22

- Summary
- Configuration
- Dependency Resolution
- Artifact Transforms
- Task Execution

| Description | Duration |
|-----------------------|----------|
| Total Build Time | 19.732s |
| Startup | 19.356s |
| Settings and buildSrc | 0.154s |
| Loading Projects | 0.013s |
| Configuring Projects | 0.035s |
| Artifact Transforms | 0s |
| Task Execution | 0.011s |

Generated by Gradle 6.6.1 at Oct 3, 2020 12:46:23 PM

Build Scripts & Groovy

```
build.gradle X
groovyTest > build.gradle
1  task upperCase {
2      doLast {
3          def someText = 'I am Gradle'
4          println "Original: " + someText
5          println "Upper case: " + someText.toUpperCase()
6      }
7  }
8
9  task counting {
10     doLast {
11         6.times{
12             print "$it "
13         }
14         println ""
15     }
16 }
```

C:\Windows\System32\cmd.exe

```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\groovyTest>gradle -q upperCase
Original: I am Gradle
Upper case: I AM GRADLE
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\groovyTest>gradle -q counting
0 1 2 3 4 5
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\groovyTest>
```

Task Dependencies

build.gradle X

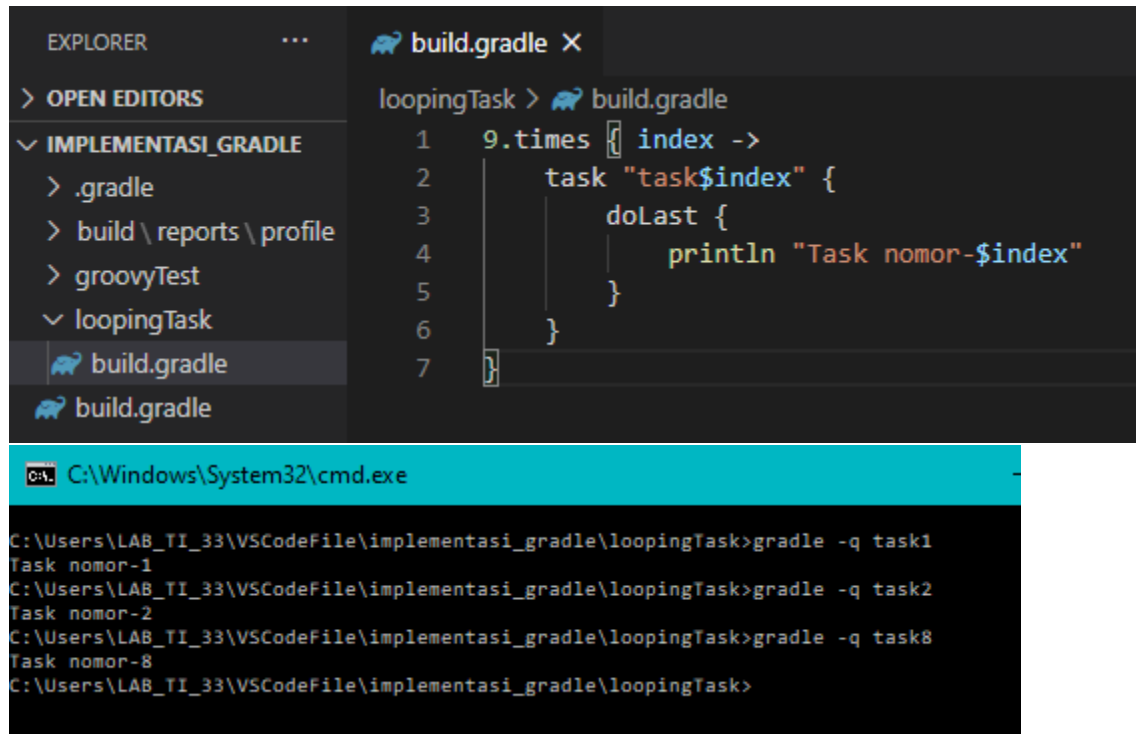
groovyTest > build.gradle

```
1  task upperCase (dependsOn: 'counting') {
2      doLast {
3          def someText = 'I am Gradle'
4          println "Original: " + someText
5          println "Upper case: " + someText.toUpperCase()
6      }
7  }
8
9  task counting {
10     doLast {
11         6.times{
12             print "$it "
13         }
14         println ""
15     }
16 }
```

C:\Windows\System32\cmd.exe

```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\groovyTest>gradle -q upperCase
0 1 2 3 4 5
Original: I am Gradle
Upper case: I AM GRADLE
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\groovyTest>
```

Dynamic Task



The image shows a VS Code editor window with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with a folder named 'IMPLEMENTASI_GRADLE' containing subfolders like '.gradle', 'build', 'reports', 'profile', 'groovyTest', and 'loopingTask'. The 'loopingTask' folder is selected, showing a file named 'build.gradle'. The code editor displays the contents of 'build.gradle', which defines a task 'task\$index' that prints 'Task nomor-\$index' for each index from 1 to 9. Below the code editor, a terminal window shows the execution of the Gradle task, displaying the output 'Task nomor-1' through 'Task nomor-8'.

```
EXPLORER  ...  build.gradle X

> OPEN EDITORS
✓ IMPLEMENTASI_GRADLE
  > .gradle
  > build \ reports \ profile
  > groovyTest
  ✓ loopingTask
    build.gradle
  build.gradle

loopingTask > build.gradle
1  9.times { index ->
2      task "task$index" {
3          doLast {
4              println "Task nomor-$index"
5          }
6      }
7  }
```

```
C:\Windows\System32\cmd.exe

C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\loopingTask>gradle -q task1
Task nomor-1
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\loopingTask>gradle -q task2
Task nomor-2
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\loopingTask>gradle -q task8
Task nomor-8
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\loopingTask>
```


Task Manipulation

```
build.gradle X
loopingTask > build.gradle
1  9.times { index ->
2      task "task$index" {
3          doLast {
4              println "Task nomor-$index"
5          }
6      }
7  }
8
9  task0.dependsOn task2,task4,task6,task8
10
```

```
C:\Windows\System32\cmd.exe
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\loopingTask>gradle -q task0
Task nomor-2
Task nomor-4
Task nomor-6
Task nomor-8
Task nomor-0
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\loopingTask>gradle -q task3
Task nomor-3
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\loopingTask>gradle -q task2
Task nomor-2
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\loopingTask>
```

Bagian 6

Task: Konfigurasi, Eksekusi, Operasi, Build-in Task

Task Declarations

```
build.gradle X
taskTutorial > build.gradle
1 task namaTask
```

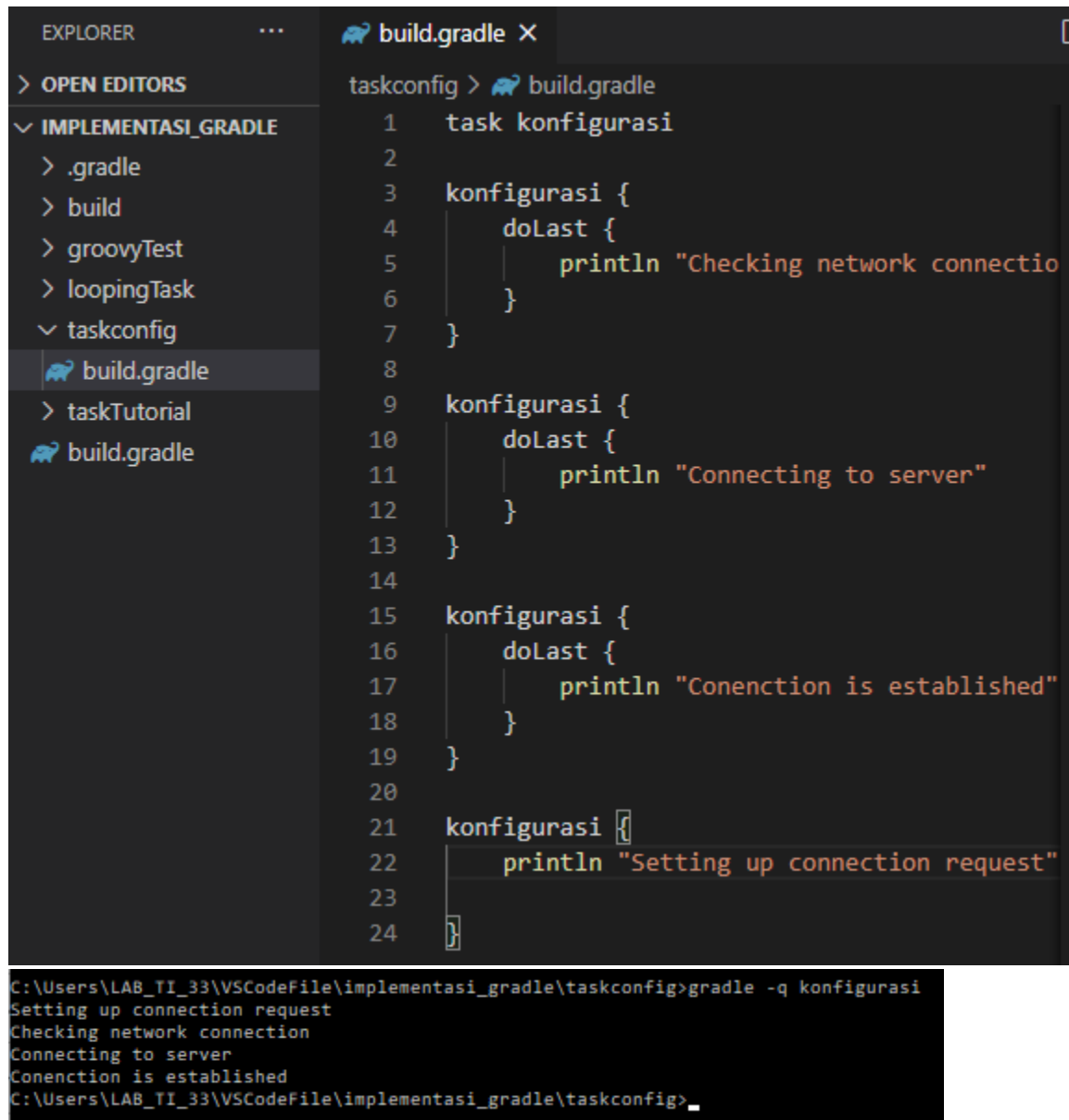
```
C:\Windows\System32\cmd.exe
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\taskTutorial>gradle -q namaTask
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\taskTutorial>
```

Task Declarations (2)

```
build.gradle X
taskTutorial > build.gradle
1 task namaTask
2
3 namaTask {
4     doLast {
5         println 'Action pertama ditambahkan ke dalam task.'
6     }
7 }
8
9 namaTask {
10     doLast {
11         println 'Action kedua ditambahkan ke dalam task.'
12     }
13 }
```

```
C:\Windows\System32\cmd.exe
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\taskTutorial>gradle -q namaTask
Action pertama ditambahkan ke dalam task.
Action kedua ditambahkan ke dalam task.
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\taskTutorial>
```

Task: Configuration



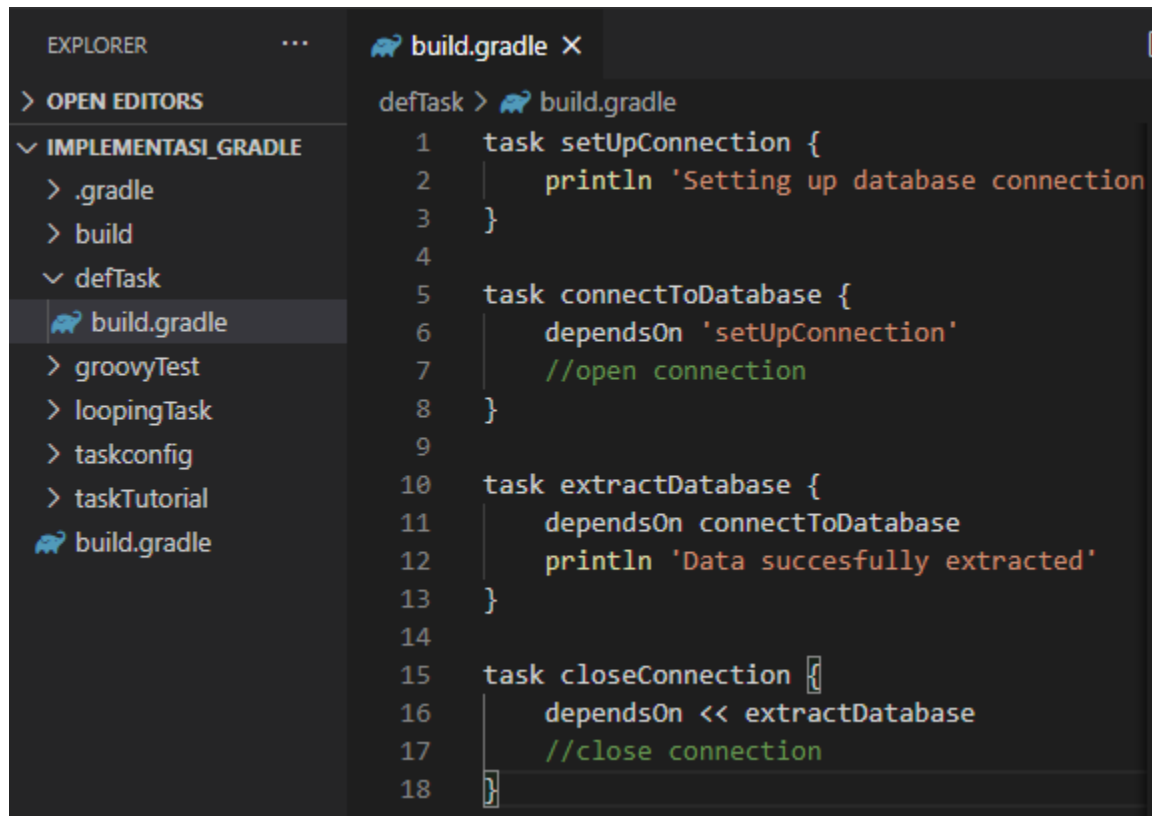
The image shows a Visual Studio Code editor with a project named 'IMPLEMENTASI_GRADLE'. The 'EXPLORER' sidebar on the left shows the project structure, with 'taskconfig' expanded and 'build.gradle' selected. The main editor displays the contents of 'build.gradle', which defines a task named 'konfigurasi'. The task has three configurations, each with a 'doLast' block containing a 'println' statement. The first configuration prints 'Checking network connection', the second prints 'Connecting to server', and the third prints 'Conenction is established'. The fourth configuration is partially visible, printing 'Setting up connection request'.

```
taskconfig > build.gradle
1  task konfigurasi
2
3  konfigurasi {
4      doLast {
5          println "Checking network connectio
6      }
7  }
8
9  konfigurasi {
10     doLast {
11         println "Connecting to server"
12     }
13 }
14
15 konfigurasi {
16     doLast {
17         println "Conenction is established"
18     }
19 }
20
21 konfigurasi {
22     println "Setting up connection request"
23 }
24 }
```

Below the editor, a terminal window shows the output of running the task:

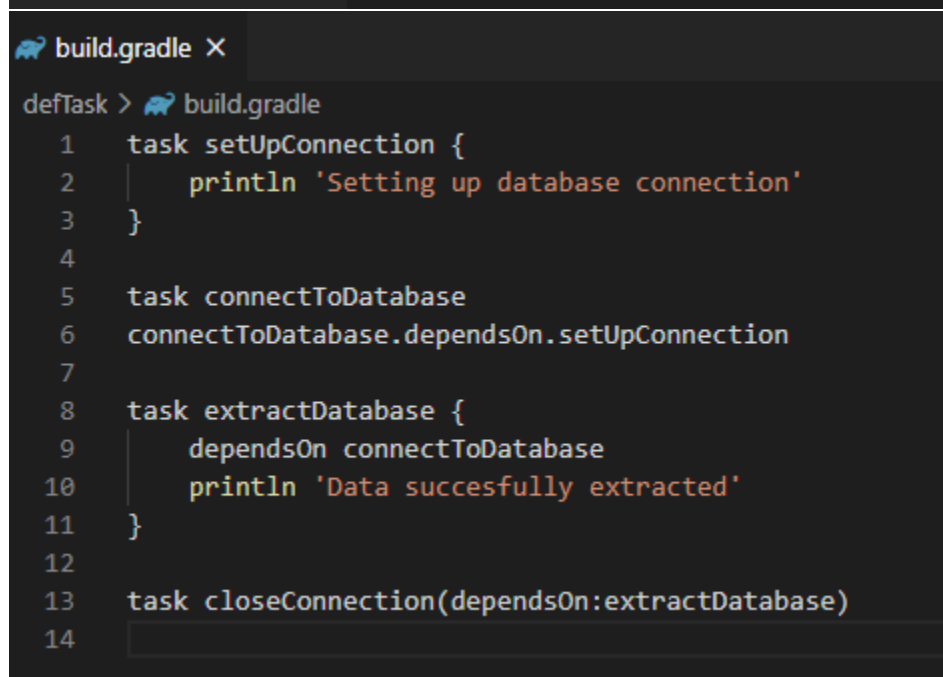
```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\taskconfig>gradle -q konfigurasi
Setting up connection request
Checking network connection
Connecting to server
Conenction is established
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\taskconfig>_
```

DefaultTask Method: dependsOn(task)



The screenshot shows an IDE with a file explorer on the left and a code editor on the right. The file explorer is titled 'EXPLORER' and shows a project structure under 'IMPLEMENTASI_GRADLE'. The project structure includes a 'build' directory, a 'defTask' directory, and a 'build.gradle' file. The 'build.gradle' file is selected and its content is displayed in the code editor. The code defines four tasks: 'setUpConnection', 'connectToDatabase', 'extractDatabase', and 'closeConnection'. The 'connectToDatabase' task depends on 'setUpConnection'. The 'extractDatabase' task depends on 'connectToDatabase'. The 'closeConnection' task depends on 'extractDatabase'.


```
defTask > build.gradle
1 task setUpConnection {
2     println 'Setting up database connection'
3 }
4
5 task connectToDatabase {
6     dependsOn 'setUpConnection'
7     //open connection
8 }
9
10 task extractDatabase {
11     dependsOn connectToDatabase
12     println 'Data succesfully extracted'
13 }
14
15 task closeConnection {
16     dependsOn << extractDatabase
17     //close connection
18 }
```





The screenshot shows an IDE with a file explorer on the left and a code editor on the right. The file explorer is titled 'EXPLORER' and shows a project structure under 'IMPLEMENTASI_GRADLE'. The project structure includes a 'build' directory, a 'defTask' directory, and a 'build.gradle' file. The 'build.gradle' file is selected and its content is displayed in the code editor. The code defines four tasks: 'setUpConnection', 'connectToDatabase', 'extractDatabase', and 'closeConnection'. The 'connectToDatabase' task depends on 'setUpConnection'. The 'extractDatabase' task depends on 'connectToDatabase'. The 'closeConnection' task depends on 'extractDatabase'.

```
defTask > build.gradle
1 task setUpConnection {
2     println 'Setting up database connection'
3 }
4
5 task connectToDatabase
6 connectToDatabase.dependsOn.setUpConnection
7
8 task extractDatabase {
9     dependsOn connectToDatabase
10    println 'Data succesfully extracted'
11 }
12
13 task closeConnection(dependsOn:extractDatabase)
14
```

```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\defTask>gradle -q setUpConnection
Setting up database connection
Data succesfully extracted
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\defTask>gradle -q closeConnection
Setting up database connection
Data succesfully extracted
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\defTask>
```

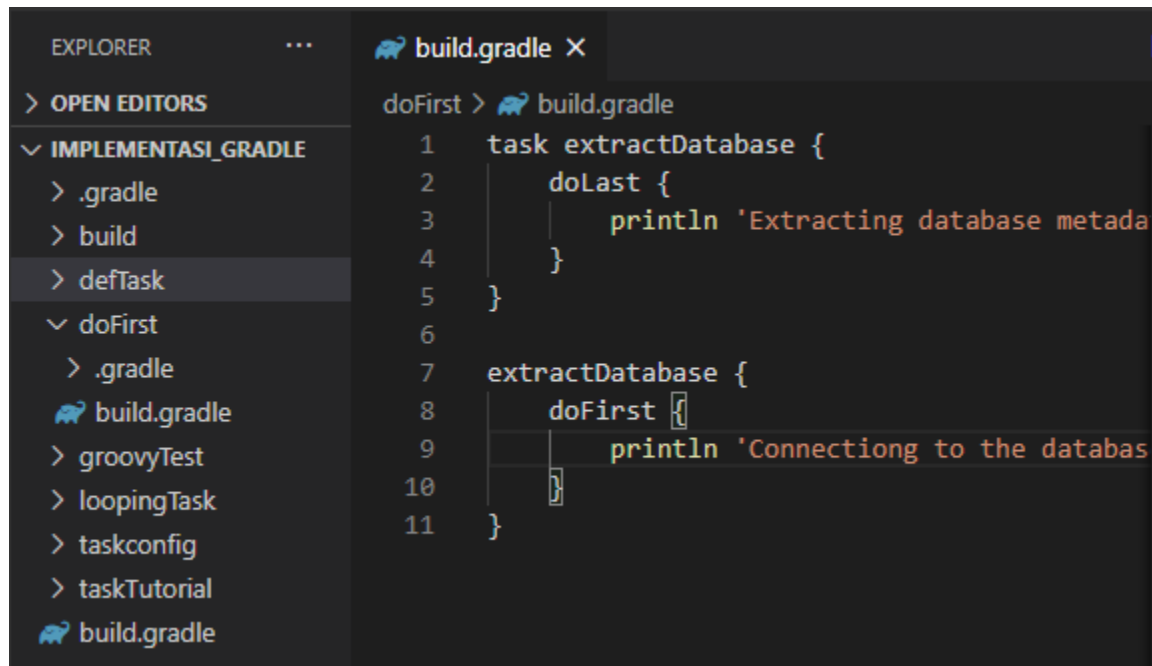
 build.gradle X

```
defTask >  build.gradle
 1  task setUpConnection {
 2      |      println 'Setting up database connection'
 3  }
 4
 5  task connectToDatabase
 6  connectToDatabase {
 7      |      println 'Connecting to database'
 8  }
 9
10  task extractDatabase {
11      |      dependsOn setUpConnection,connectToDatabase
12      |      println 'Data succesfully extracted !'
13  }
14
15  task closeConnection(dependsOn:extractDatabase) {
16      |      println 'Database connection closed'
17  }
18
```

 C:\Windows\System32\cmd.exe

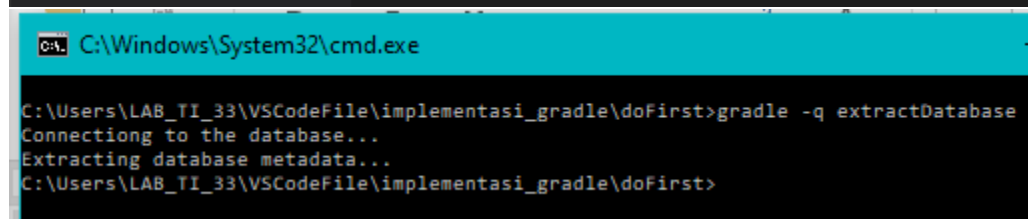
```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\defTask>gradle -q closeConnection
Setting up database connection
Connecting to database
Data succesfully extracted !
Database connection closed
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\defTask>_
```

DefaultTask Method: doFirst(closure)



The screenshot shows the VS Code editor with a file named `build.gradle` open. The Explorer sidebar on the left shows the project structure under `IMPLEMENTASI_GRADLE`, with `doFirst` selected. The main editor displays the following Gradle code:

```
1 task extractDatabase {
2     doLast {
3         println 'Extracting database metadata...'
4     }
5 }
6
7 extractDatabase {
8     doFirst {
9         println 'Connecting to the database...'
10    }
11 }
```



The screenshot shows a Windows command prompt window titled `C:\Windows\System32\cmd.exe`. The command executed is `gradle -q extractDatabase`. The output shows the execution of the `extractDatabase` task, with the `doFirst` block running first, followed by the `doLast` block.

```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\doFirst>gradle -q extractDatabase
Connecting to the database...
Extracting database metadata...
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\doFirst>
```

```
build.gradle X
doFirst > build.gradle
1  task extractDatabase {
2      doLast {
3          println 'Extracting database metadata...'
4      }
5  }
6
7  extractDatabase {
8      doFirst {
9          println 'Connectiong to the database...'
10     }
11     doFirst {
12         println 'Setting up to the database..'
13     }
14 }

C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\doFirst>gradle -q extractDatabase
Setting up to the database..
Connectiong to the database...
Extracting database metadata...
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\doFirst>
```

DefaultTask Method: doLast(closure)

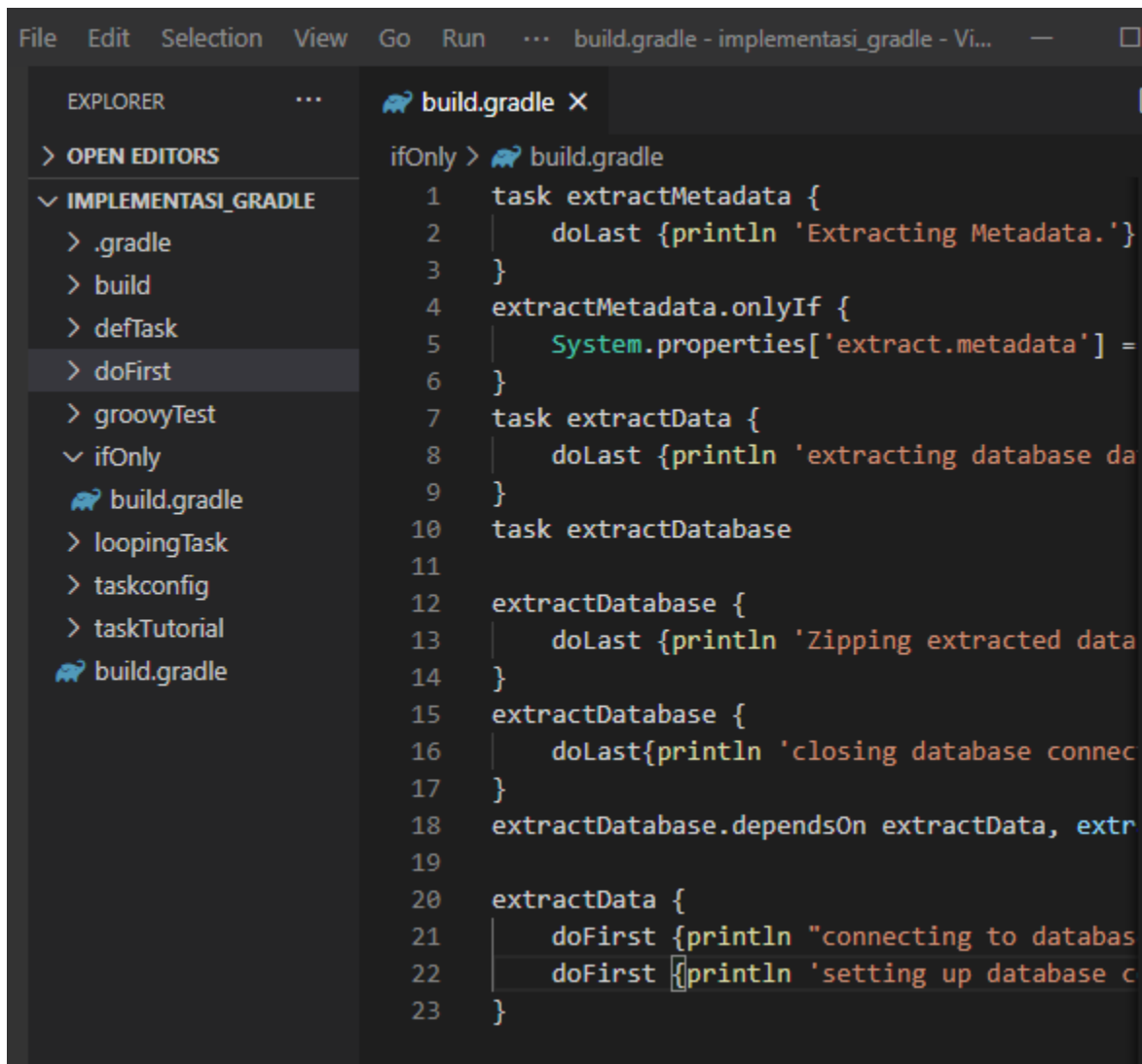
```
build.gradle X
doFirst > build.gradle
1  task extractDatabase {
2      doLast {
3          println 'Extracting database metadata...'
4      }
5  }
6
7  extractDatabase.doLast{
8      println 'Downloading data...'
9  }
10 extractDatabase.doLast {
11     println 'closing database connection..'
12 }
13
14 extractDatabase {
15     doFirst {
16         println 'Connectiong to the database...'
17     }
18     doFirst {
19         println 'Setting up to the database..'
20     }
21 }
```

```

C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\doFirst>gradle -q extractDatabase
Setting up to the database..
Connecting to the database...
Extracting database metadata...
Downloading data...
closing database connection..
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\doFirst>

```

DefaultTask Method: onlyIf(closure)



The screenshot shows the VS Code interface with the Explorer view on the left and the Editor view on the right. The Explorer view shows the project structure for 'IMPLEMENTASI_GRADLE', including files like '.gradle', 'build', 'defTask', 'doFirst', 'groovyTest', 'ifOnly', 'build.gradle', 'loopingTask', 'taskconfig', 'taskTutorial', and 'build.gradle'. The Editor view shows the 'build.gradle' file with the following code:

```

ifOnly > build.gradle
1  task extractMetadata {
2      doLast {println 'Extracting Metadata.'}
3  }
4  extractMetadata.onlyIf {
5      System.properties['extract.metadata'] =
6  }
7  task extractData {
8      doLast {println 'extracting database da
9  }
10 task extractDatabase
11
12 extractDatabase {
13     doLast {println 'Zipping extracted data
14 }
15 extractDatabase {
16     doLast{println 'closing database connec
17 }
18 extractDatabase.dependsOn extractData, extr
19
20 extractData {
21     doFirst {println "connecting to databas
22     doFirst {println 'setting up database c
23 }

```



```
C:\Windows\System32\cmd.exe

C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\ifOnly>gradle extractDatabase

> Task :extractData
setting up database connection
connecting to database.
extracting database data.

> Task :extractDatabase
Zipping extracted data to backupdata.zip
closing database connection.

BUILD SUCCESSFUL in 20s
2 actionable tasks: 2 executed
```

```
C:\Windows\System32\cmd.exe

2 actionable tasks: 2 executed
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\ifOnly>gradle -Dextract.metadata=true extractDatabase

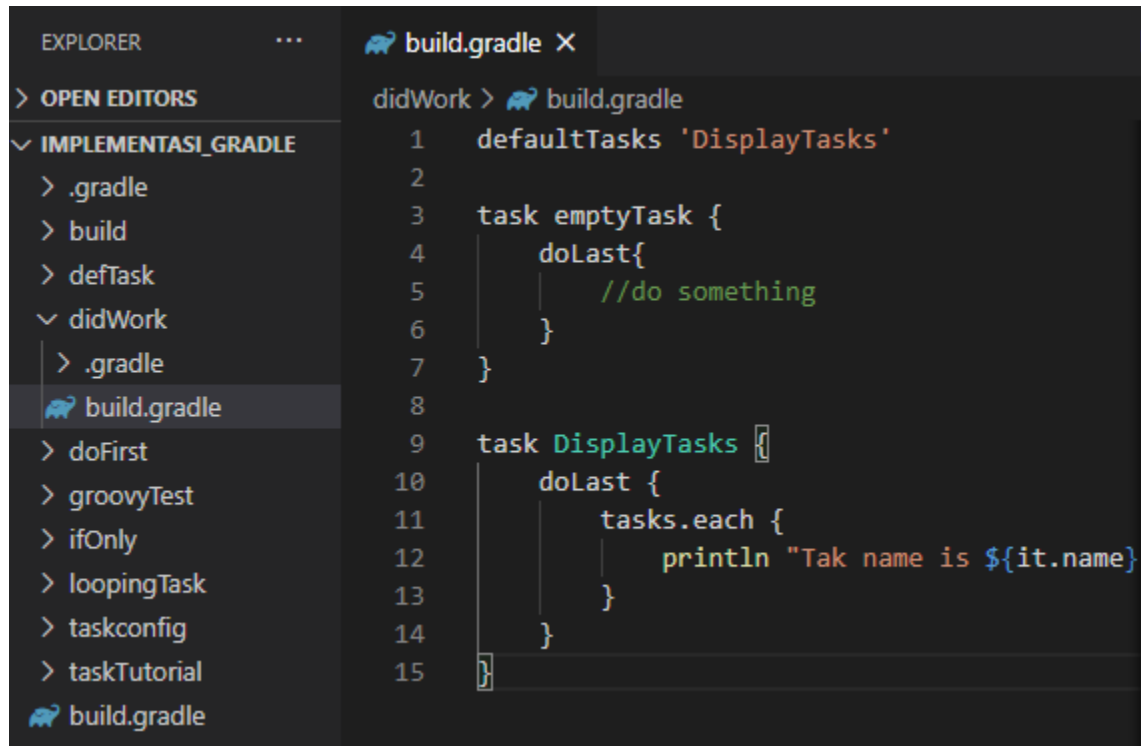
> Task :extractData
setting up database connection
connecting to database.
extracting database data.

> Task :extractMetadata
Extracting Metadata.

> Task :extractDatabase
Zipping extracted data to backupdata.zip
closing database connection.

BUILD SUCCESSFUL in 18s
3 actionable tasks: 3 executed
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\ifOnly>
```

DefaultTask



The screenshot shows the VS Code interface with the Explorer on the left and the build.gradle file open in the editor. The Explorer shows the project structure under 'IMPLEMENTASI_GRADLE', including folders like '.gradle', 'build', 'defTask', and 'didWork'. The 'didWork' folder is expanded, showing '.gradle' and 'build.gradle'. The 'build.gradle' file in the editor contains the following code:

```
1 defaultTasks 'DisplayTasks'
2
3 task emptyTask {
4     doLast{
5         //do something
6     }
7 }
8
9 task DisplayTasks {
10     doLast {
11         tasks.each {
12             println "Tak name is ${it.name}"
13         }
14     }
15 }
```

```
C:\Windows\System32\cmd.exe

C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\didWork>gradle

> Task :DisplayTasks
Tak name is DisplayTasks
Tak name is buildEnvironment
Tak name is components
Tak name is dependencies
Tak name is dependencyInsight
Tak name is dependentComponents
Tak name is emptyTask
Tak name is help
Tak name is init
Tak name is model
Tak name is outgoingVariants
Tak name is prepareKotlinBuildScriptModel
Tak name is projects
Tak name is properties
Tak name is tasks
Tak name is wrapper

BUILD SUCCESSFUL in 20s
1 actionable task: 1 executed
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle\didWork>
```

Bagian 7

Task : Manajemen File di Gradle

Membuat Sebuah direktori

```
task ensureDirectory {  
    doLast {  
        mkdir "images"  
    }  
}
```

irawan suharto > irawan (C:) > Users > LAB_TI_33 > VSCodeFile > implementasi_gradle

| | Name | Date modified | Type | Size |
|--|--------------|--------------------|-------------|------|
| | .gradle | 10/3/2020 12:04 PM | File folder | |
| | build | 10/3/2020 12:46 PM | File folder | |
| | defTask | 10/3/2020 1:32 PM | File folder | |
| | didWork | 10/3/2020 2:17 PM | File folder | |
| | doFirst | 10/3/2020 1:52 PM | File folder | |
| | groovyTest | 10/3/2020 12:56 PM | File folder | |
| | ifOnly | 10/3/2020 2:12 PM | File folder | |
| | images ✓ | 10/3/2020 2:34 PM | File folder | |
| | loopingTask | 10/3/2020 1:03 PM | File folder | |
| | taskconfig | 10/3/2020 1:22 PM | File folder | |
| | taskTutorial | 10/3/2020 1:13 PM | File folder | |
| | build.gradle | 10/3/2020 2:33 PM | GRADLE File | |

Menyalin Sebuah File

```
buildDir = "C:/Users/LAB_TI_33/VSCoDeFile/implementasi_gradle"
task copyReport(type: Copy) {
    from file ("${buildDir}/reports/my-report.pdf")
    into file ("${buildDir}/toArchive")
}
```

```
C:\Users\LAB_TI_33\VSCoDeFile\implementasi_gradle>gradle -q copyReport
C:\Users\LAB_TI_33\VSCoDeFile\implementasi_gradle>
```

```
task copyReport2 (type: Copy) {
    from ("${buildDir}/reports/my-report2.pdf")
    into ("${buildDir}/toArchive")
}
```

```
C:\Users\LAB_TI_33\VSCoDeFile\implementasi_gradle>gradle -q copyReport2
C:\Users\LAB_TI_33\VSCoDeFile\implementasi_gradle>
```

irawan suharto > irawan (C:) > Users > LAB_TI_33 > VSCoDeFile > implementasi_gradle > toArchive

| <input type="checkbox"/> | Name | Date modified | Type | Size |
|--------------------------|----------------|-------------------|--------------------|--------|
| | my-report.pdf | 10/3/2020 3:00 PM | Adobe Acrobat D... | 185 KB |
| | my-report2.pdf | 10/3/2020 3:13 PM | Adobe Acrobat D... | 184 KB |

Menyalin Lebih Dari Satu File

```
task copyReportForArchiving (type: Copy) {
    from ("${buildDir}/reports/my-report3.pdf", "src/docs/manual.pdf")
    into ("${buildDir}/toArchive")
}
```

```
C:\Users\LAB_TI_33\VSCoDeFile\implementasi_gradle>gradle -q copyReport2
C:\Users\LAB_TI_33\VSCoDeFile\implementasi_gradle>gradle -q copyReportForArchiving
C:\Users\LAB_TI_33\VSCoDeFile\implementasi_gradle>
```

irawan suharto > irawan (C:) > Users > LAB_TI_33 > VSCoDeFile > implementasi_gradle > toArchive

| <input type="checkbox"/> | Name | Date modified | Type | Size |
|--------------------------|----------------|-------------------|--------------------|--------|
| | manual.pdf | 10/3/2020 3:22 PM | Adobe Acrobat D... | 184 KB |
| | my-report.pdf | 10/3/2020 3:00 PM | Adobe Acrobat D... | 185 KB |
| | my-report2.pdf | 10/3/2020 3:13 PM | Adobe Acrobat D... | 184 KB |
| | my-report3.pdf | 10/3/2020 3:22 PM | Adobe Acrobat D... | 184 KB |

```
task copyPdfReportForArchiving (type: Copy) {
    from ("${buildDir}/reports")
    include "*.pdf"
    into ("${buildDir}/toArchive2")
}
```

C:\Windows\System32\cmd.exe

```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q copyPdfReportForArchiving
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>
```

| C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle > toArchive2 | | | | |
|--|----------------|-------------------|--------------------|--------|
| | Name | Date modified | Type | Size |
| | my-report.pdf | 10/3/2020 3:36 PM | Adobe Acrobat D... | 185 KB |
| | my-report2.pdf | 10/3/2020 3:36 PM | Adobe Acrobat D... | 184 KB |
| | my-report3.pdf | 10/3/2020 3:36 PM | Adobe Acrobat D... | 184 KB |

Menyalin Lebih Dari Satu File (2)

```
task copyAllPdfReportForArchiving (type: Copy) {
    from ("${buildDir}/reports")
    include "**/*.pdf"
    into ("${buildDir}/toArchive3")
}
```

C:\Windows\System32\cmd.exe

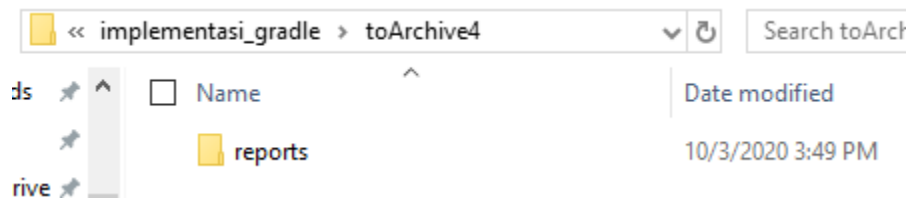
```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q copyAllPdfReportForArchiving
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>
```

| C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle > toArchive3 | | | | |
|--|---|-------------------|--|--|
| | Name | Date modified | | |
| | <input checked="" type="checkbox"/> report lain | 10/3/2020 3:42 PM | | |
| | <input type="checkbox"/> my-report.pdf | 10/3/2020 3:42 PM | | |
| | <input type="checkbox"/> my-report2.pdf | 10/3/2020 3:42 PM | | |
| | <input type="checkbox"/> my-report3.pdf | 10/3/2020 3:42 PM | | |

Menyalin Sebuah Direktori

```
task copyReportDirForArchiving (type: Copy) {  
    from ("${buildDir}") {  
        include "reports/**"  
    }  
    into ("${buildDir}/toArchive4")  
}
```

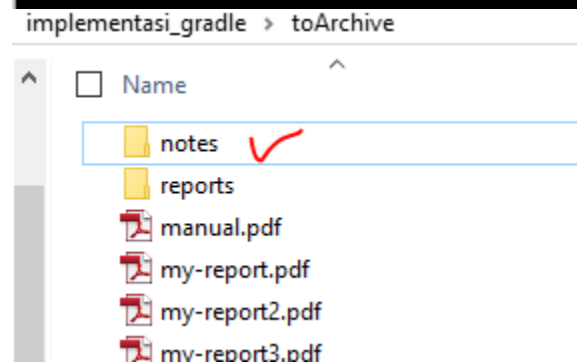
```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q copyReportDirForArchiving  
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>
```



Memindahkan *file* dan direktori

```
task moveReports {  
    doLast {  
        ant.move file: "${buildDir}/notes",  
            todir: "${buildDir}/toArchive"  
    }  
}
```

```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q moveReports  
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>
```



Menghapus sebuah *file*

VSCodeFile > implementasi_gradle

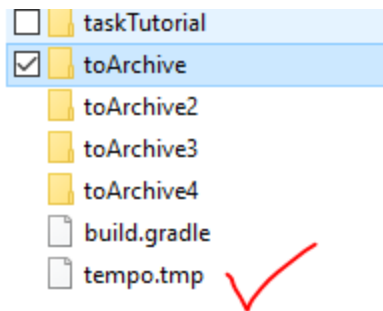
| | Name | Date m |
|-------------------------------------|-------------|---------|
| | .git | 10/3/20 |
| | .gradle | 10/3/20 |
| | build | 10/3/20 |
| | defTask | 10/3/20 |
| | didWork | 10/3/20 |
| | doFirst | 10/3/20 |
| | groovyTest | 10/3/20 |
| | ifOnly | 10/3/20 |
| | images | 10/3/20 |
| <input checked="" type="checkbox"/> | junk | 10/3/20 |
| | loopingTask | 10/3/20 |
| | reports | 10/3/20 |
| | src | 10/3/20 |

```
task myClean (type: Delete) {  
    delete "$buildDir/junk"  
}
```

C:\Windows\System32\cmd.exe

```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q myClean  
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>
```

- ifOnly
- images
- loopingTask
- reports
- src
- taskconfig
- taskTutorial
- toArchive



```
task cleanTempFiles (type: Delete) {  
    delete fileTree("$buildDir").matching {  
        include "**/*.tmp"  
    }  
}
```

```
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q myClean  
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>gradle -q cleanTempFiles  
C:\Users\LAB_TI_33\VSCodeFile\implementasi_gradle>
```

