



DIGITAL TALENT SCHOLARSHIP 2019

Big Data Analytics



Project 2: Instalasi Web App & Mobile App

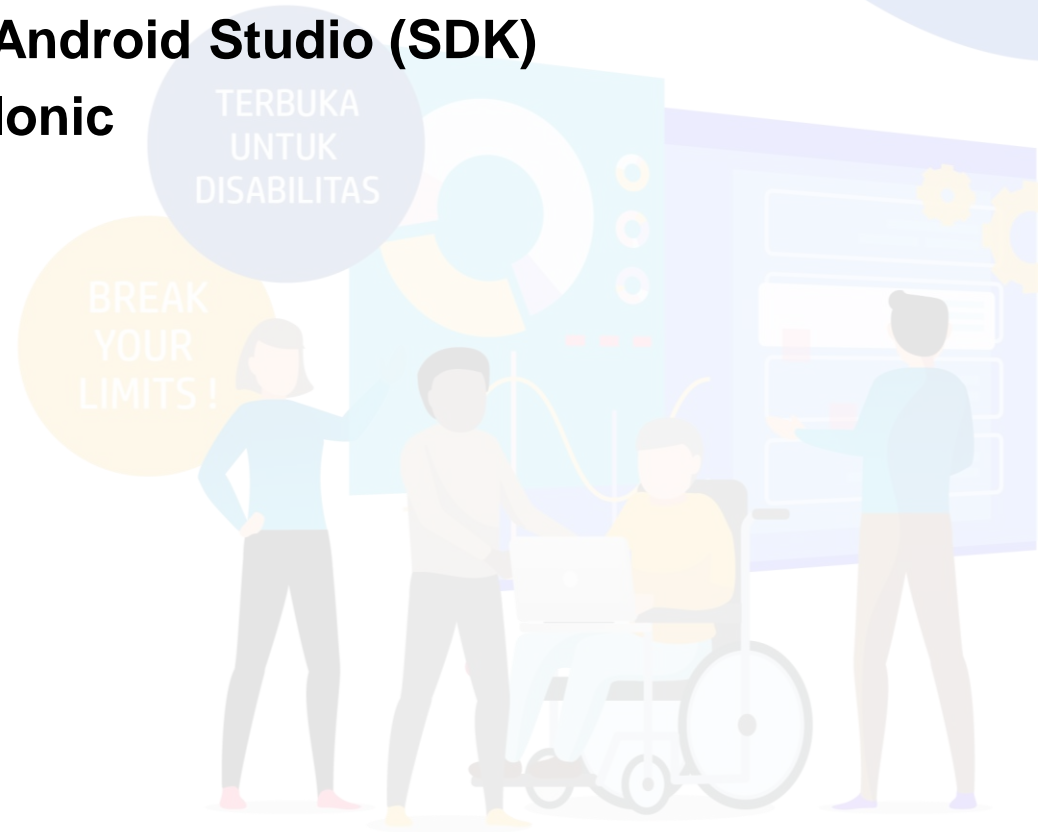
Oleh: Imam Cholissodin | imamcs@ub.ac.id, Putra Pandu Adikara, Sufia Adha Putri

Asisten: Guedho, Sukma, Anshori, Aang dan Gusti

Fakultas Ilmu Komputer (Filkom) Universitas Brawijaya (UB)

Pokok Bahasan

1. Instalasi nodeJS, Git dan Android Studio (SDK)
2. Instalasi dan Konfigurasi Ionic
3. Tugas



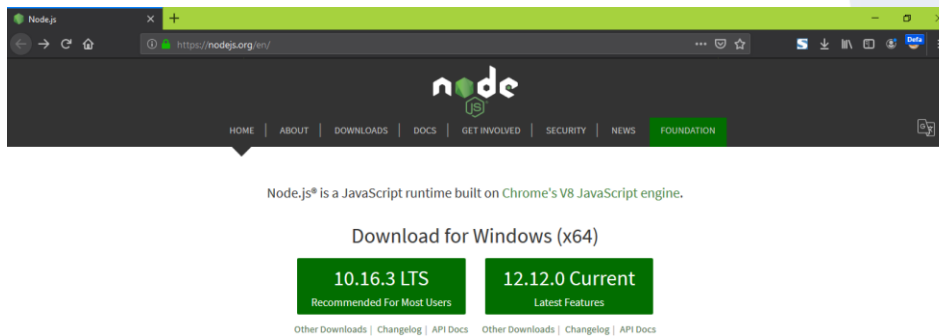
TERBUKA
UNTUK
DISABILITAS

Instalasi dan Konfigurasi Ionic



Instalasi NodeJS dan Git

- Misal download dari link
“<https://nodejs.org/dist/v10.16.3/node-v10.16.3-x64.msi>”

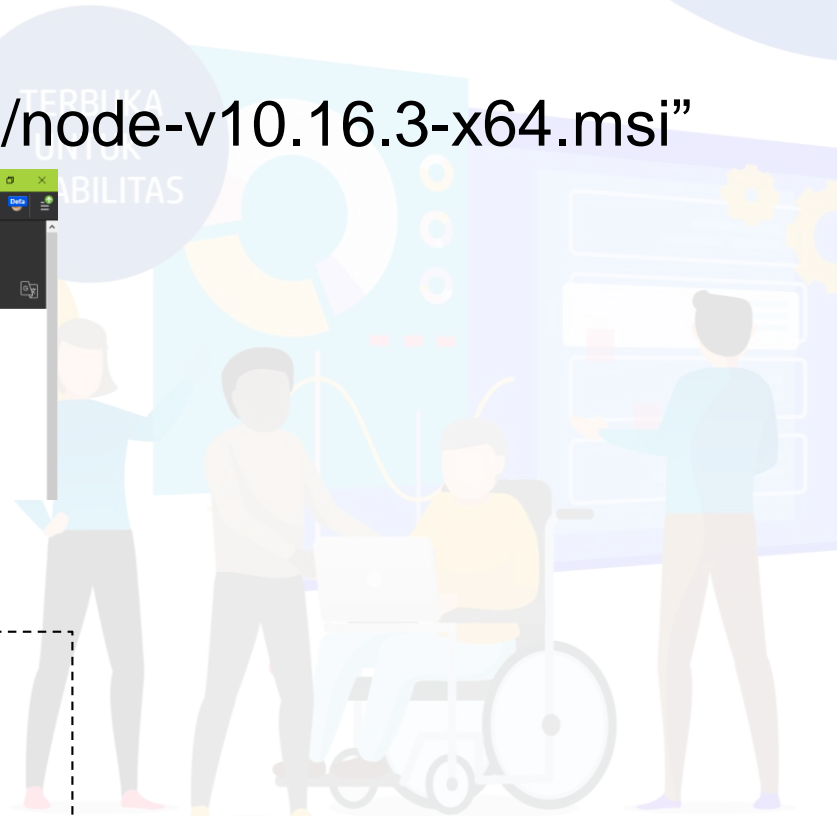


- Cek version nodeJS dan npm

```
C:\WINDOWS\system32>node --version  
v10.16.0
```

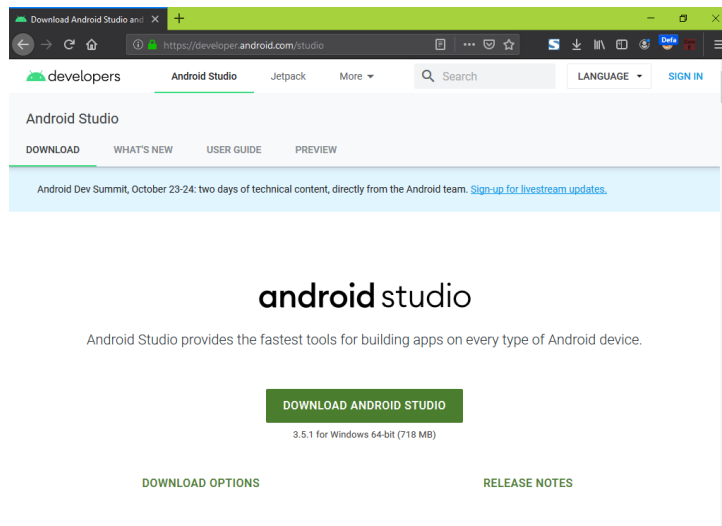
```
C:\WINDOWS\system32>npm --version  
6.11.3
```

```
C:\WINDOWS\system32>git --version  
git version 2.18.0.windows.1
```



Instalasi Android Studio (SDK) & Mirror device on Host & Others

- Misal download dari halaman “<https://developer.android.com/studio>”



- Instalasi software untuk Mirror Android to PC
- Download dan Install Visual Studio Code: “<https://code.visualstudio.com/download>”



Instalasi Ionic CLI dan Cordova

- Ketikkan “npm install -g ionic cordova”

```
C:\WINDOWS\system32>npm install -g ionic cordova
npm WARN deprecated superagent@4.1.0: Please note that v5.0.1+ of
superagent removes User-Agent header by default, therefore you may need to
add it yourself (e.g. GitHub blocks requests without a User-Agent header). This
notice will go away with v5.0.2+ once it is released.
C:\Users\Imacho\AppData\Roaming\npm\cordova ->
C:\Users\Imacho\AppData\Roaming\npm\node_modules\cordova\bin\cordova
C:\Users\Imacho\AppData\Roaming\npm\ionic ->
C:\Users\Imacho\AppData\Roaming\npm\node_modules\ionic\bin\ionic
+ ionic@5.4.4
+ cordova@9.0.0
added 695 packages from 392 contributors in 239.525s

C:\WINDOWS\system32>
```

Buat Ionic App: Helloworld :D

- Ketikkan “ionic start helloWorld blank --type=ionic-angular”

```
C:\WINDOWS\system32>cd..
```

```
C:\Windows>cd..
```

```
C:\>mkdir alonicProject
```

```
C:\>cd alonicProject
```

```
C:\alonicProject>ionic start helloWorld blank --type=ionic-angular
```

Lalu untuk menjalankan App, ketikkan berikut:

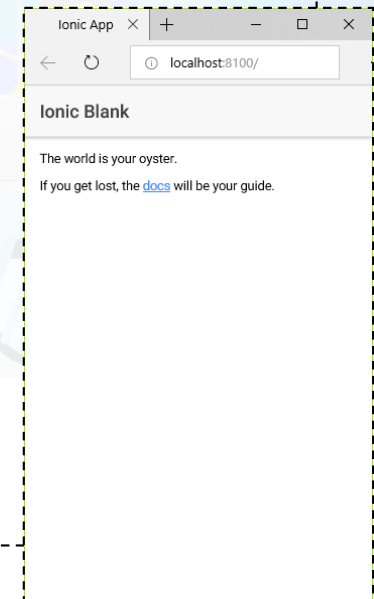
```
C:\alonicProject>cd helloWorld
```

```
C:\alonicProject\helloWorld>ionic serve
```

```
[INFO] Browser window opened to http://localhost:8100!
```

```
[app-scripts] [21:11:19] lint finished in 29.21 s
```

Tekan Ctr+C beberapa kali Lalu ketik Y pada
Terminate batch job (Y/N)? Y



Buat Ionic App: MylonicProject

- Ketikkan “ionic start MylonicProject tutorial --type=ionic-angular”

```
C:\alonicProject\helloWorld>cd..
```

```
C:\alonicProject>ionic start MylonicProject tutorial --type=ionic-angular
```

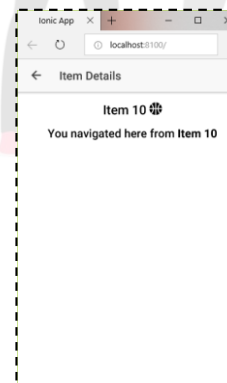
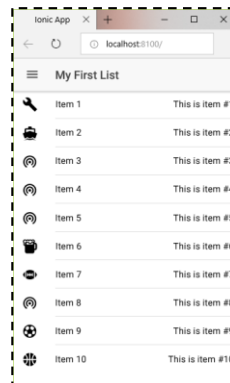
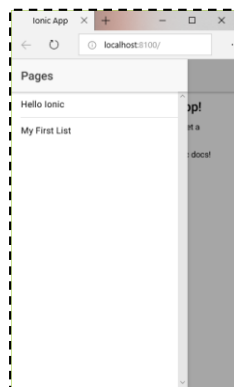
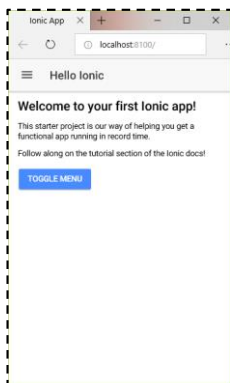
Lalu untuk menjalankan App, ketikkan berikut:

```
C:\alonicProject>cd MylonicProject
```

```
C:\alonicProject\helloWorld>ionic serve
```

[INFO] Browser window opened to <http://localhost:8100/>!

[app-scripts] [21:34:07] lint finished in 25.72 s

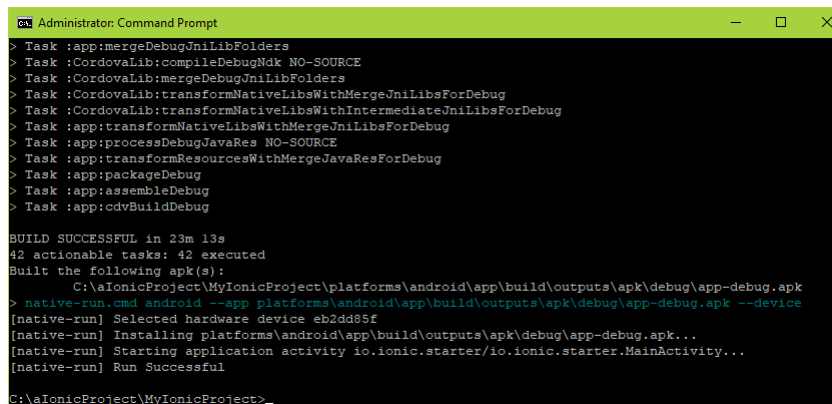


Run Ionic App pada Android Device

- Ketikkan berikut: (tunggu beberapa waktu)

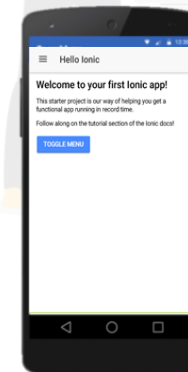
```
C:\alonicProject\MyIonicProject>npm i -g native-run
C:\Users\Imacho\AppData\Roaming\npm\native-run ->
C:\Users\Imacho\AppData\Roaming\npm\node_modules\native-run\bin\native-run
+ native-run@0.2.9
added 30 packages from 33 contributors in 16.161s

C:\alonicProject\MyIonicProject>ionic cordova run android --device
```



```
Administrator: Command Prompt
> Task :app:mergeDebugJniLibFolders
> Task :CordovaLib:compileDebugNdk NO-SOURCE
> Task :CordovaLib:mergeDebugJniLibFolders
> Task :CordovaLib:transformNativeLibsWithMergeJniLibsForDebug
> Task :CordovaLib:transformNativeLibsWithIntermediateJniLibsForDebug
> Task :app:transformNativeLibsWithMergeJniLibsForDebug
> Task :app:processDebugJavaRes NO-SOURCE
> Task :app:transformResourcesWithMergeJavaResForDebug
> Task :app:packageDebug
> Task :app:assembleDebug
> Task :app:cdvBuildDebug

BUILD SUCCESSFUL in 23m 13s
42 actionable tasks: 42 executed
Built the following apk(s):
  C:\alonicProject\MyIonicProject\platforms\android\app\build\outputs\apk\debug\app-debug.apk
> native-run.cmd android --app platforms\android\app\build\outputs\apk\debug\app-debug.apk --device
[native-run] Selected hardware device eb2dd85f
[native-run] Installing platforms\android\app\build\outputs\apk\debug\app-debug.apk...
[native-run] Starting application activity io.ionic.starter.io.ionic.starter.MainActivity...
[native-run] Run Successful
C:\alonicProject\MyIonicProject>
```



Android/iOS Device
(di HP Anda)

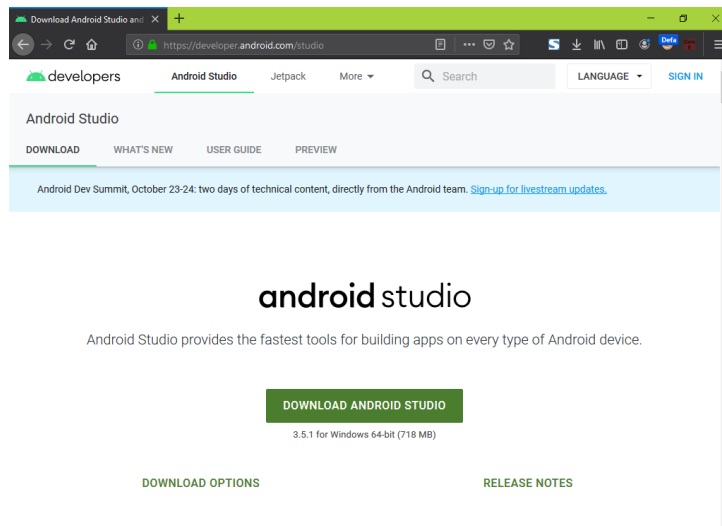
Instalasi dan Konfigurasi Flutter

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Instalasi Flutter

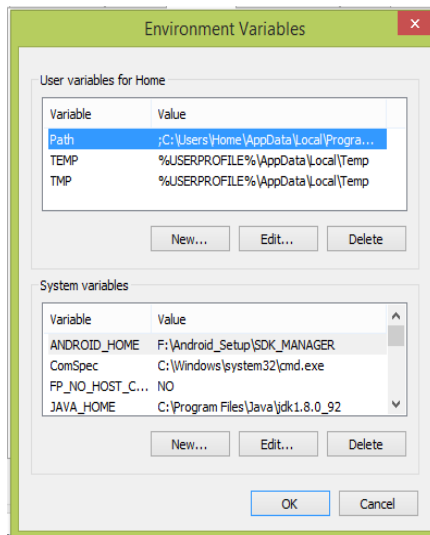
- Ketikkan “npm install -g ionic cordova”

```
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C:\Users\Imacho\AppData\Roaming\npm\ionic ->
C:\Users\Imacho\AppData\Roaming\npm\node_modules\ionic\bin\ionic
+ ionic@5.4.4
+ cordova@9.0.0
added 695 packages from 392 contributors in 239.525s

C:\WINDOWS\system32>
```

Instalasi Flutter

- Download dan install flutter SDK terbaru:
“<https://flutter.dev/docs/development/tools/sdk/releases>”
Ekstrak bebas di directory manapun (tidak harus di C)
Untuk membukanya file hasil ekstrasi → eksekusi file “flutter_console.bat”
- Update **Path** pada Environment Variables dengan menambahkan : <lokasi_flutter>\flutter_sdk\bin



Instalasi Flutter

- Buka CMD, ketikkan perintah:

Flutter doctor (untuk melihat konfigurasi flutter yang terinstall)

- Konfigurasi pada Visual Studio Code

Start VSC

Install Extension : “flutter”

Buka view – Command palette, lalu

Ketikan perintah “doctor” untuk testing

- Create Flutter Project,

Misal pada drive C anda membuat folder “FlutterProject”, buka CMD dgn ketikkan

```
C:\> mkdir FlutterProject
```

```
C:\> cd FlutterProject
```

```
C:\FlutterProject> Flutter create <nama app>
```

```
C:\FlutterProject> code . → tekan enter, lalu F5 untuk compile kode flutter
```

Instalasi dan Konfigurasi Django

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DISABILITAS



Instalasi Django

- Buka CMD, ketikkan perintah:

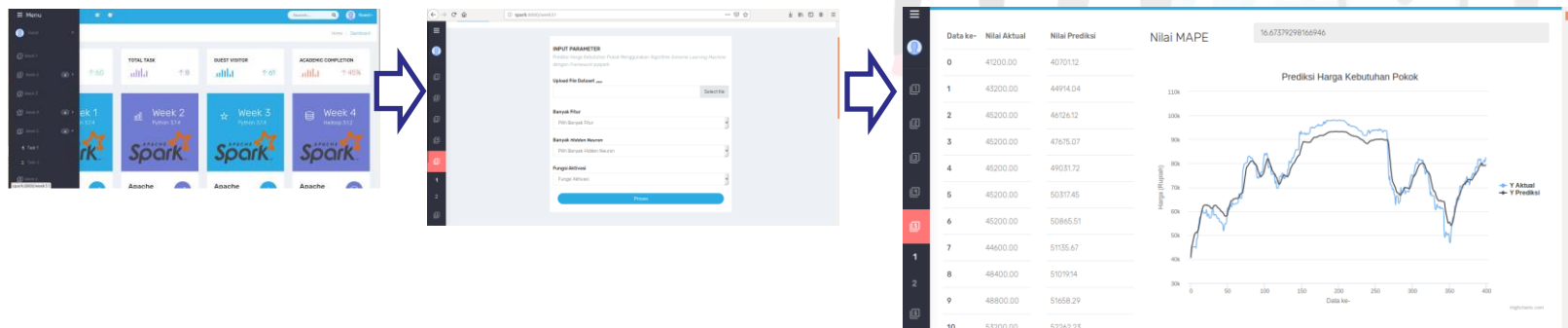
`pip install Django`

- Copy project InitWebPyUBig101

dari link “<http://bit.ly/2P6oNDU>”
Lalu ekstrak pada komputer Anda

- Masuk ke folder hasil ekstrak, lalu untuk run, ketikkan

`python manage.py runserver`
Lalu akses week 5, pada task 1 atau 2

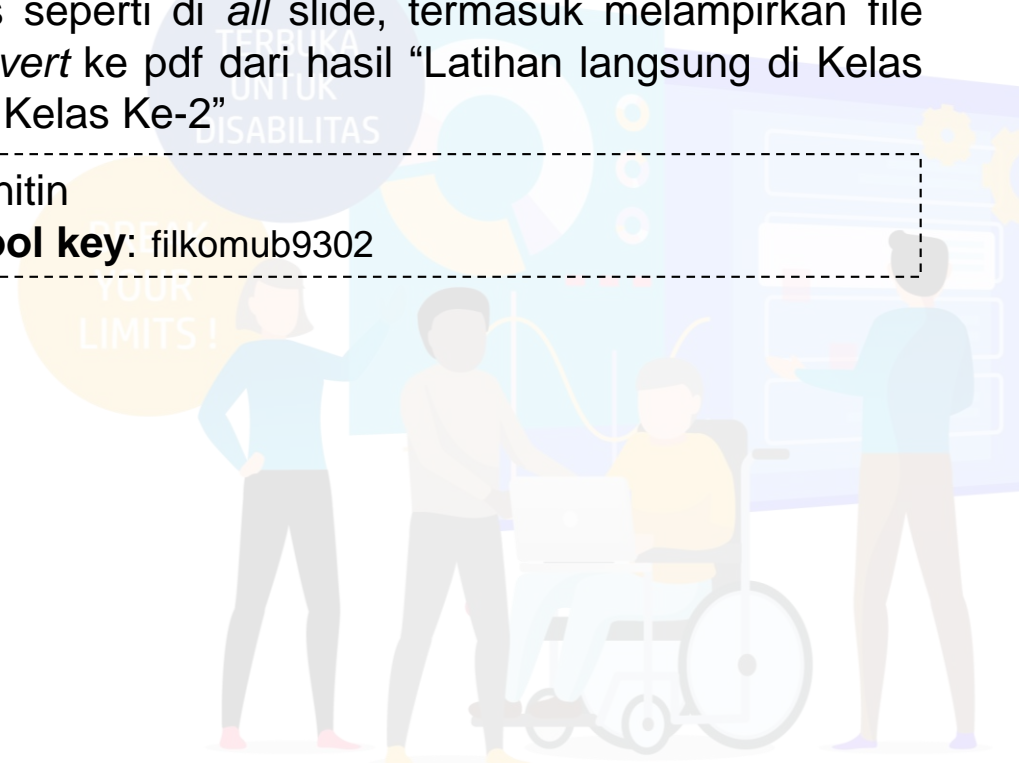


Tugas Individu

1. Buatlah rangkuman materi di atas dengan cara berikut:

- Lakukan ulang materi di atas seperti di *all* slide, termasuk melampirkan file *.doc/docx yang sudah di-*convert* ke pdf dari hasil “Latihan langsung di Kelas Ke-1 dan Latihan langsung di Kelas Ke-2”

> Register ke turnitin cek plagiasi diturnitin
> Masukkan **id class**: 21563495 & **enroll key**: filkomub9302





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Terimakasih

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