



Mobile application development

移动应用开发



## Lecture 010:

### APP Inventor \_Example

Review the example and introduce some blocks



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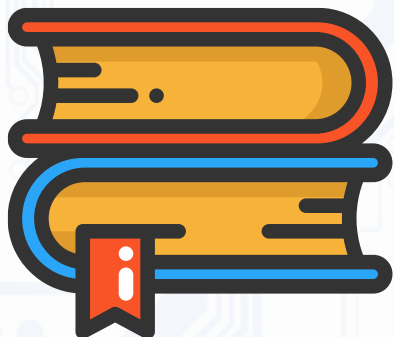
EMAIL: [ajm@jxust.edu.cn](mailto:ajm@jxust.edu.cn)

**Autumn \_2021**



江西理工大学信息工程学院

JIANGXI UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF INFORMATION ENGINEERING



# MOBILE APPLICATION DEVELOPMENT

## LECTURE 09: **APP Inventor \_Example**

**Review the example and introduce list blocks**

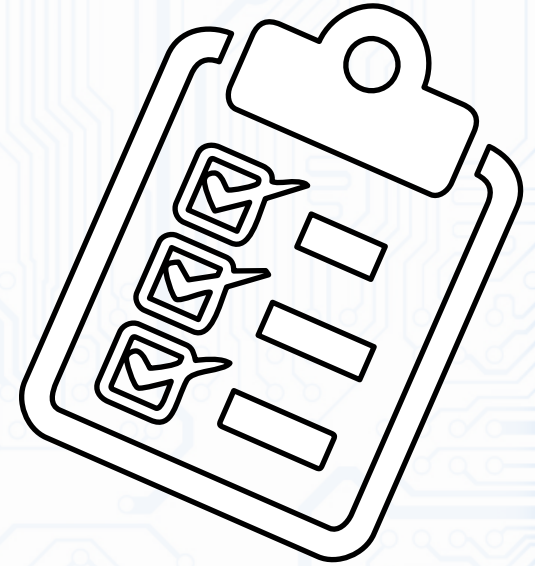




# Agenda

## – Review the example and introduce LIST blocks

- MIT App Inventor LIST Blocks
- Example name **Student Portal**





- More study please read the share PDF on MOOC
- About list section







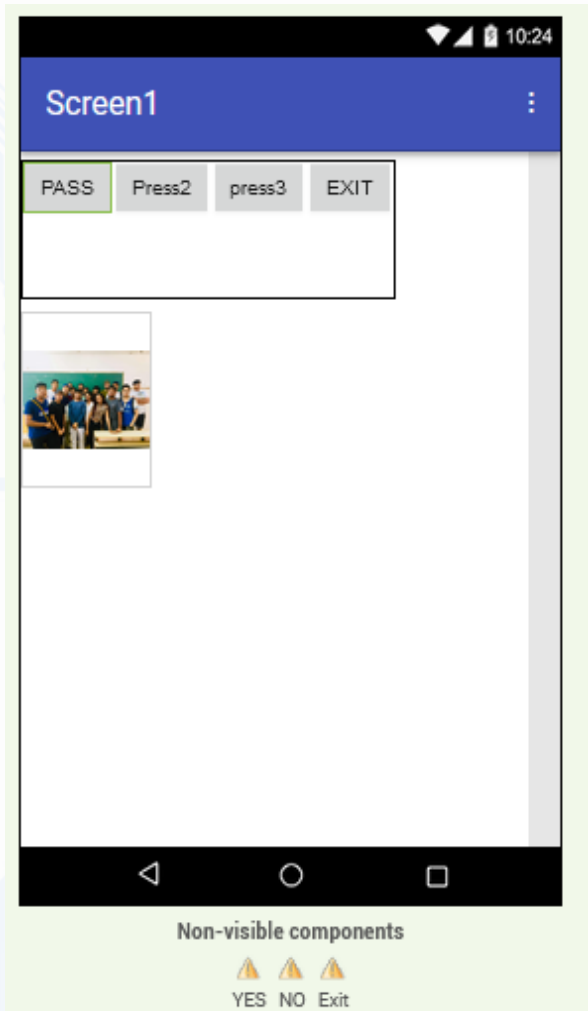
# Today example

- Find the ID number of student by pressing the name of student in the list
- We will extend the last example and use it for new example
- **We can call this app: Student Portal**

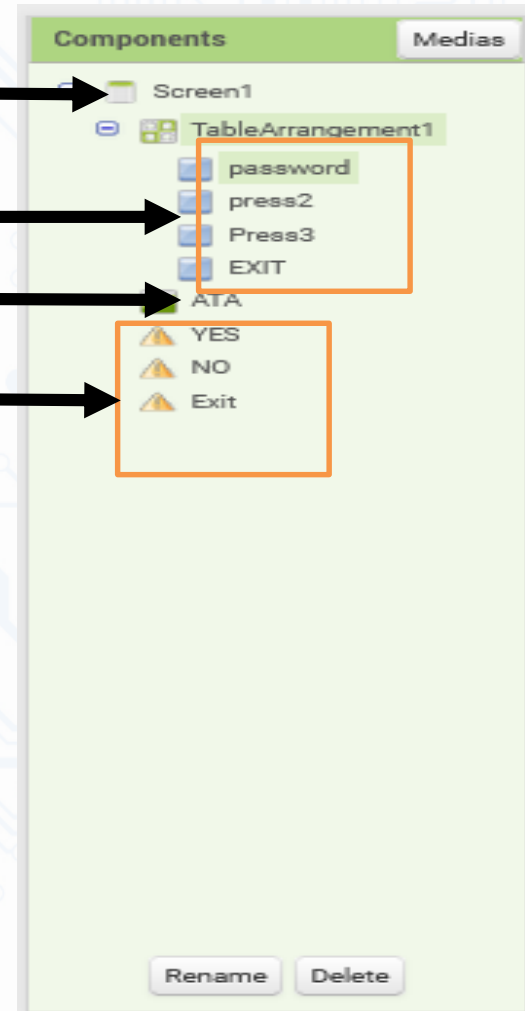




# Last Project part in Designer section



- @Screen 1
- Layout arrangement
- Button \*4
- Image
- Notification section





# New Project part in Designer section

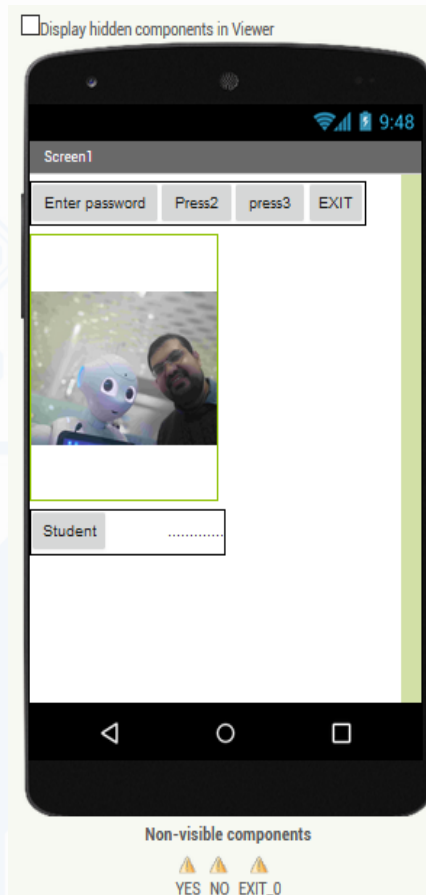
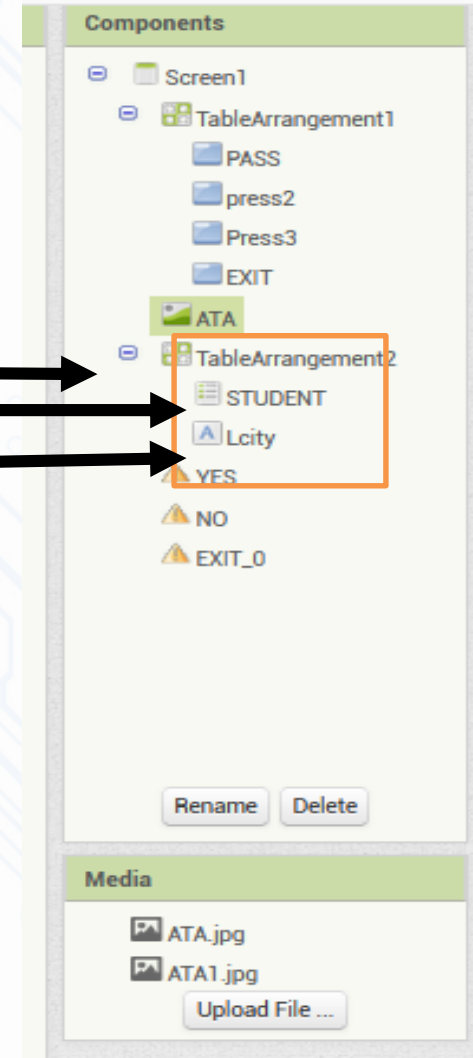


Table arrangement  
List picker  
Label

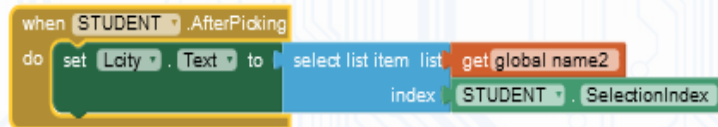
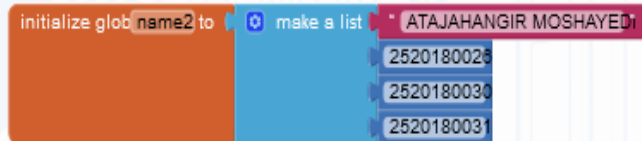
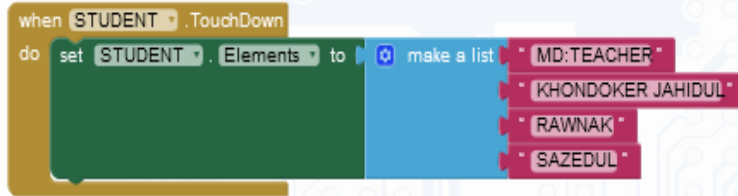




# Block Diagram Over view



App Inventor



Show Warnings



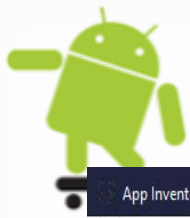
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App Inventor





# Designer section



App Inventor 2

MIT App Inventor List Blocks

MIT App Inventor

WWW.BANDICAM.COM

ai2.appinventor.mit.edu/#4822199578263552

Getting Started

PID

Basic functions related...

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Palette

Search Components...

User Interface

- Button
- CheckBox
- DatePicker
- Image
- Label
- ListPicker
- ListView
- Notifier
- PasswordTextBox
- Slider
- Spinner
- Switch
- TextBox
- TimePicker
- WebViewer

Layout

Media

Drawing and Animation

Maps

Sensors

Viewer

Display hidden components in Viewer

Screen1

Enter password

Press2

press3

EXIT

Components

- Screen1
- TableArrangement1
  - PASS
  - press2
  - Press3
  - EXIT
- ATA
- YES
- NO
- EXIT\_0

Properties

Screen1

AboutScreen

AccentColor

Default

AlignHorizontal

Left: 1

AlignVertical

Top: 1

AppName

solam

BackgroundColor

Default

BackgroundImage

None

BlocksToolkit

All

CloseScreenAnimation

Default

Icon

None

OpenScreenAnimation

Default

PrimaryColor

Default

PrimaryColorDark

Default

ScreenOrientation

Unspecified

Scrollable

Media

- ATA.jpg
- ATA1.jpg

Upload File...

Rename

Delete

Non-visible components

YES NO EXIT\_0





# Blocks section



App Inventor

App Inventor 2

MIT App Inventor List Blocks

MIT App Inventor

www.BANDICAM.com

ai2.appinventor.mit.edu/#4822199578263552

Getting Started

PID

Basic functions related...

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JRM | Fuji Technology ...

MIT APP INVENTOR

My Projects

Connect

Build

Settings

Help

My Projects

View Trash

Gallery

Guide

Report an Issue

English

mohsaydi@gmail.com

ATA\_list\_02\_copy

Screen1

Add Screen

Remove Screen

Designer

Blocks

Blocks

Text

Lists

Dictionaries

Colors

Variables

Procedures

Screen1

TableArrangement1

PASS

press2

Press3

EXIT

Label2

ATA

TableArrangement2

Student

Label1

YES

Rename

Delete

Media

ATA.jpg

ATA1.jpg

Upload File ...

Viewer

when Student.TouchDown

do

initialize global name to

when EXIT.Click

do

call EXIT.ShowProgressDialog

message hi

title EXIT

close screen

when YES.AfterTextInput

response

do

set global name to get response

if ATA = get response

then

call EXIT.ShowProgressDialog

message Yes

title OK

else

call EXIT.ShowProgressDialog

message OOH

title NO

when PASS.Click

do

call YES.ShowPasswordDialog

message Enter your pass word

title password

can be true

Show Warnings

Windows taskbar

15:39

08/11/2020

ENG



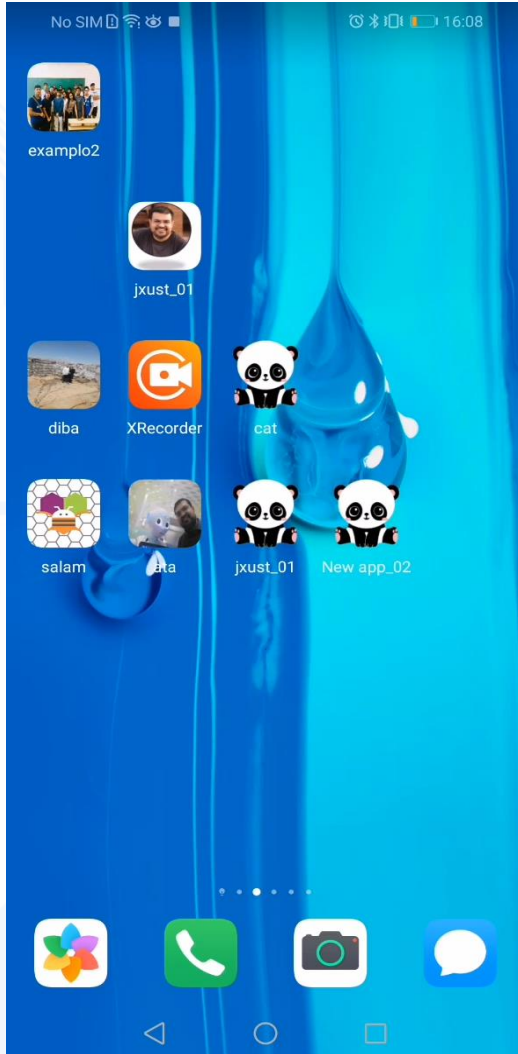
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App Inventor



# APP Demo



```
when STUDENT.TouchDown
do set STUDENT.Elements to make a list
  MD-TEACHER
  KHONDOKER JAHIDUL
  RAMNAK
  SAZEDUL
```

```
initialize glob_name2 to make a list
  ATAJAHANGIR MOSHAYED
  2520180028
  2520180030
  2520180031
```

```
when STUDENT.AfterPicking
do set Lcity.Text to select list item list
  get global name2
  index STUDENT.SelectionIndex
```

```
initialize glob_name to
```

```
when EXIT.Click
do call EXIT_0.ShowProgressDialog
  message
  title EXIT
close screen
```

```
when YES.AfterTextInput
response
do set global name to get response
if ATA = get response
then call EXIT_0.ShowProgressDialog
  message Yes
  title OK
else call EXIT_0.ShowProgressDialog
  message OOH
  title NO
```

```
when PASS.Click
do call YES.ShowProgressDialog
  message Enter your pass word
  title password
  cancelable true
```



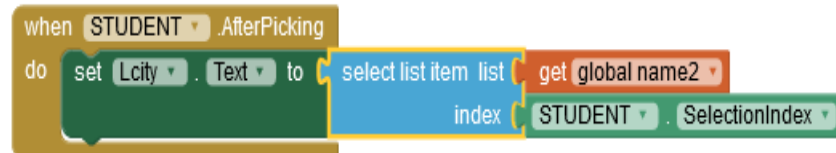
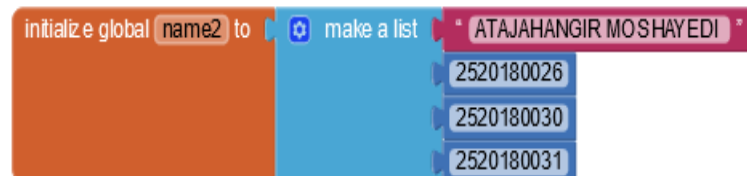
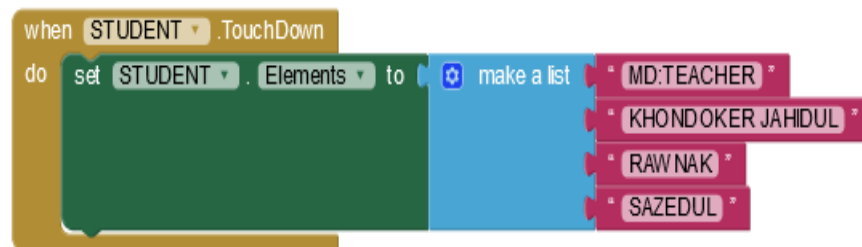


# One main different between two version



<https://app.wxbit.com>

<http://ai2.appinventor.mit.edu>



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App Inventor





# Student Task\_7



- Read the task book 2
  - send solved example(**Student Portal**) for all you friend in our lecture(cs2019) in this ppt + video clip based on each section and total app
- Follow the task PPT format**

**Next lecture**

- You have time to send your task
- Send the file in PPT(power point format) to JUST MOOC
- Your file should have this format of name

**<Task number><student name><Student ID>.ppt**





# Reference

- <http://ai2.appinventor.mit.edu/reference/blocks/lists.html#selectlistitem>
- **<https://appinventor.mit.edu/explore/content/alertme.html>**
- **Teaching with AppInventor** <http://appinventor.mit.edu/explore/teach.html>
- **AppInventor Tutorials:** <http://appinventor.mit.edu/explore/ai2/tutorials.html>
- **Sounds** <http://www.soundbible.com>
- **App Inventor:** <http://appinventor.googlelabs.com/>
- **Appinventor.org:** <http://www.appinventor.org/>
- **Wolber, Abelson et al. text:** <http://www.appinventor.org/text2011>
- **Group:** <http://groups.google.com/group/app-inventor-instructors>
- **Wolber course:** <http://appinventor.org/course-in-a-box>
- **Morelli course:** <http://turing.cs.trincoll.edu/~ram/cpsc110/>



“We are one  
society. We are  
one globe.”

STEVEN CHU  
Nobel Prize in Physics 1997





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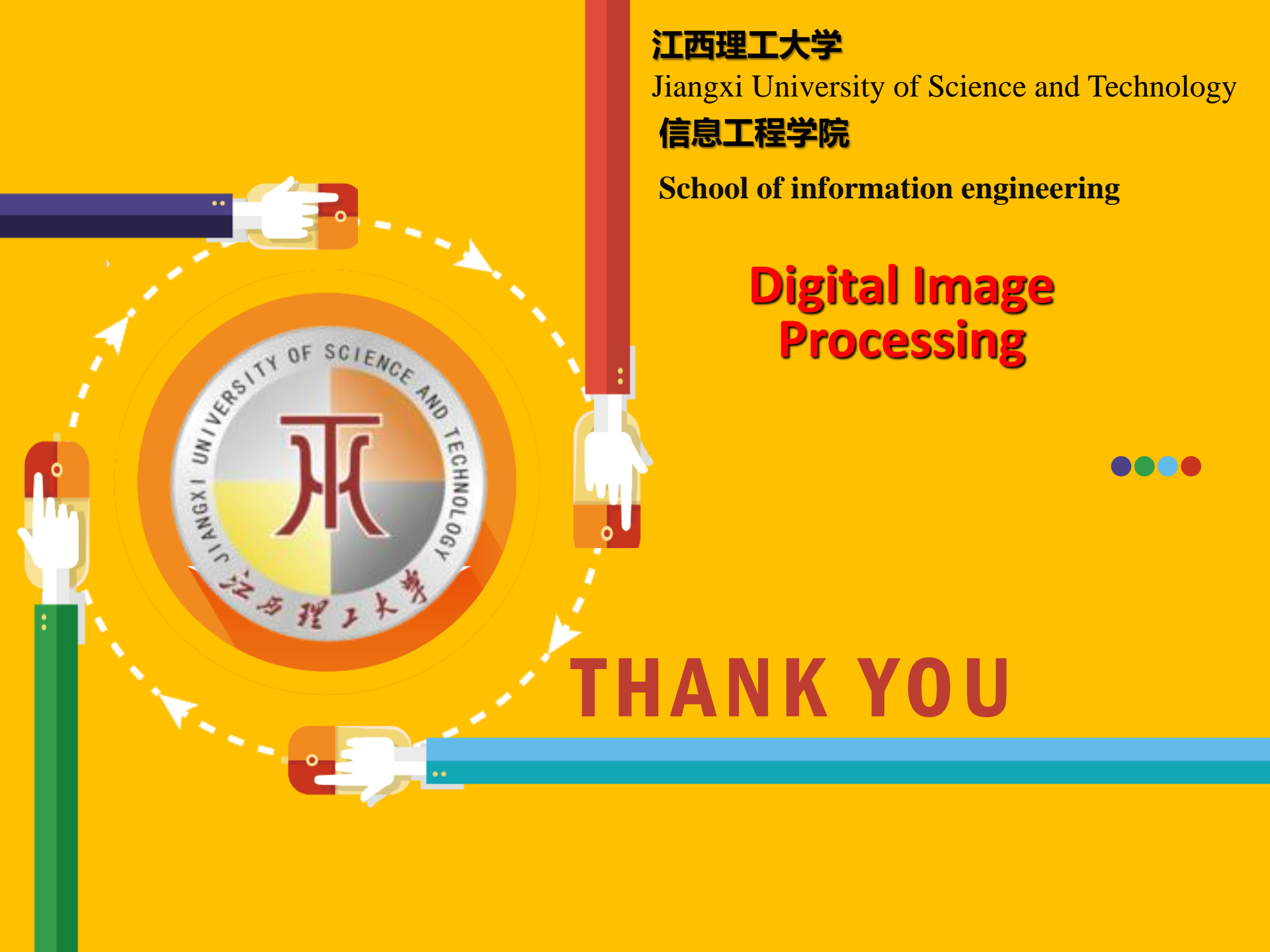
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# Digital Image Processing



# THANK YOU







**“BE HUMBLE. BE HUNGRY.  
AND ALWAYS BE THE  
HARDEST WORKER  
IN THE ROOM.”**

