

University of Anbar
College of Computer Science and Information
Technology
Computer Science Department



Mobile Application Programming

Lab Five Third Stage

First Course 2023 - 2024

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Java in Android Studio

- Java is a versatile programming language widely used in Android development.
- Android Studio supports Java features such as object-oriented programming, platform independence, and more.
- Android Studio seamlessly integrates Java features such as object-oriented programming, multithreading, and a vast array of libraries, making it an ideal environment for building robust Android applications.

** طريقة تعريف بعض العناصر بالجافا **

```
TextView = findViewById(R.id.textView);  
Button = findViewById(R.id.button);  
EditText = findViewById(R.id.editText);  
imageView = findViewById(R.id.imageView);
```

**** Button in java**

```
Button variable = (Button)findViewById(R.id.id name);  
button.setOnClickListener( new Button.OnClickListener()  
{ public void onClick(View v)  
{ // Action to be performed when button is clicked  
} } );
```

**** RadioButton**

```
RadioButton r=findViewById(R.id.rd);  
r.setOnCheckedChangeListener(new  
CompoundButton.OnCheckedChangeListener() {  
    @Override  
    public void onCheckedChanged(CompoundButton compoundButton,  
boolean b) {  
        if(b)  
  
            Toast.makeText(getApplicationContext(),"Checked",Toast.LENGTH_LON  
G).show();  
  
            else  
  
            Toast.makeText(getApplicationContext(),"unChecked",Toast.LENGTH_L  
ONG).show();  
  
        }  
});
```

** RadioButton

```
RadioButton r=findViewById(R.id.rd);
r.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
@Override
public void onCheckedChanged(CompoundButton compoundButton,
boolean b) {
if(b)

Toast.makeText(getApplicationContext(),"Checked",Toast.LENGTH_LON
G).show();
else

Toast.makeText(getApplicationContext(),"unChecked",Toast.LENGTH_L
ONG).show();
}
});
```

** CheckBox

```
CheckBox ch=findViewById(R.id.ch1);
ch.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
@Override
public void onCheckedChanged(CompoundButton compoundButton,
boolean b) {
if (b)

Toast.makeText(getApplicationContext(),"Checked",Toast.LENGTH_LON
G).show();
else

Toast.makeText(getApplicationContext(),"unChecked",Toast.LENGTH_L
ONG).show();
}
});
```

** RatingBar

```
RatingBar ra=findViewById(R.id.r);
ra.setOnRatingBarChangeListener(new
RatingBar.OnRatingBarChangeListener() {
@Override
public void onRatingChanged(RatingBar ratingBar, float v, boolean b)
```

```
{  
    }  
});
```

** ListView

```
ListView li=findViewById(R.id.list1);  
    li.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
        @Override  
        public void onItemClick(AdapterView<?> adapterView, View view, int  
i, long l) {  
            }  
    });
```

Toast

android.widget.Toast

A toast is a view containing a quick little message for the user.

A toast provides simple feedback about an operation in a small popup. It only fills the amount of space required for the message and the current activity remains visible and interactive.

Steps

Instantiate a Toast object with one of the `makeText()` methods. This method takes three parameters: the application Context, the text message, and the duration for the toast. It returns a properly initialized Toast object.

```
Context context = getApplicationContext();  
CharSequence text = "Hello toast!";  
int duration = Toast.LENGTH_SHORT;
```

```
Toast toast = Toast.makeText(context, text, duration);  
toast.show();
```

```
// Toast.makeText(context, text, duration).show();
```

Constants		
int	<u>LENGTH_LONG</u>	Show the view or text notification for a long period of time.
int	<u>LENGTH_SHORT</u>	Show the view or text notification for a short period of time.