

## VIT-AP UNIVERSITY, ANDHRA PRADESH

### Lab sheet 11: chip buttons

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**Q1). Design an app that creates dynamic adding and removing of chip buttons.**

#### JAVA CODE:

```
package com.example.lab11;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
import com.google.android.material.chip.Chip;
import com.google.android.material.chip.ChipGroup;
public class MainActivity extends AppCompatActivity {
    static int count=0;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ChipGroup chipGroup=findViewById(R.id.chipgroup);
        Button add=findViewById(R.id.add);
        Button del=findViewById(R.id.del);
        add.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Chip ch1=new Chip(MainActivity.this);
                ch1.setId(count);
                ch1.setText("mychip"+count);
                ch1.setCloseIconVisible(true);
                chipGroup.addView(ch1);
                count++;
                ch1.setCloseIconClickListener(new View.OnClickListener()
                {
                    @Override
                    public void onClick(View view) {
                        ch1.setVisibility(View.GONE);
                        count--;
                    }
                })
            }
        })
    }
}
```

```

});
}
});
del.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
if(count==0){
Toast.makeText(MainActivity.this,"No chip
present",Toast.LENGTH_SHORT).show();
}
else{
chipGroup.removeViewAt(count-1);

count--;
}
}
});
}}

```

## **XML :**

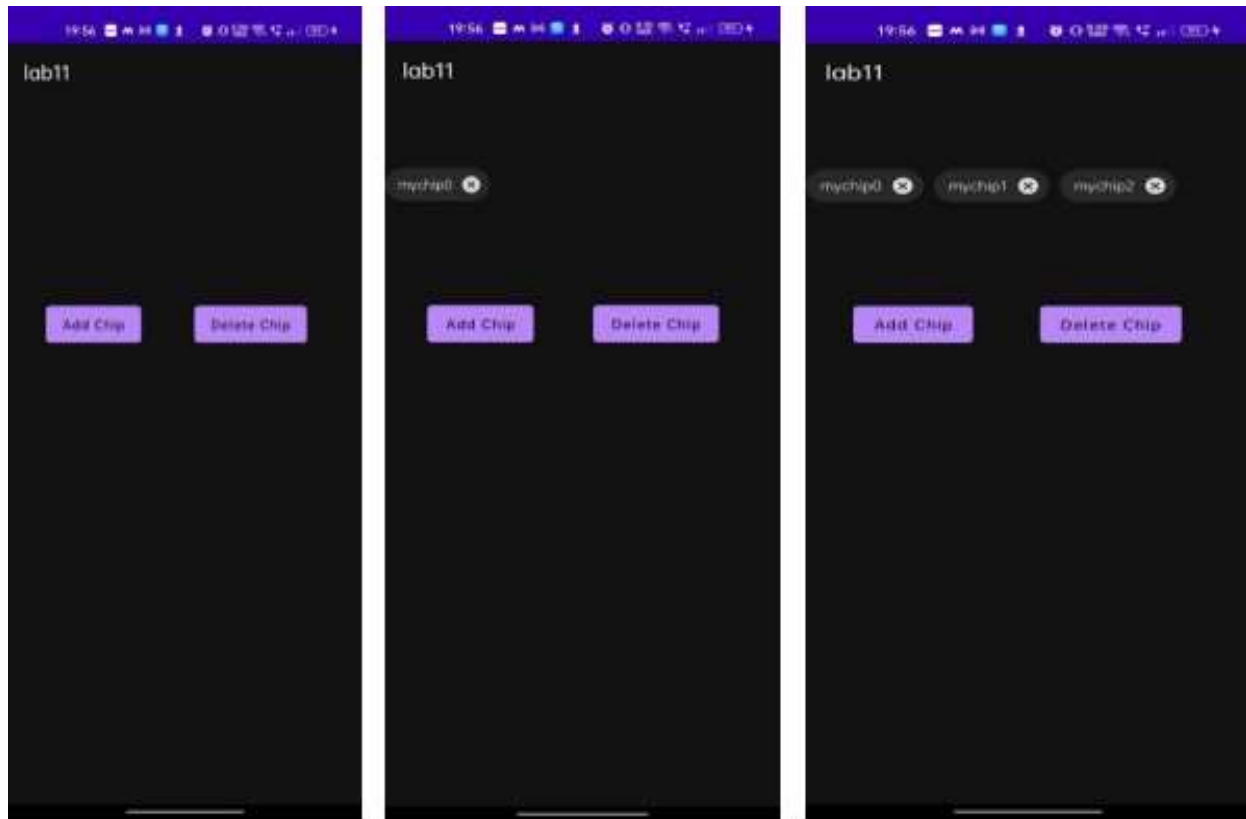
```

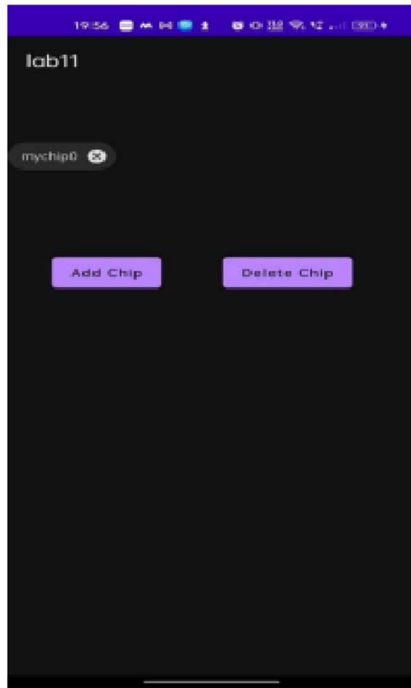
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<ListView
android:id="@+id/lsv"
android:layout_width="0dp"
android:layout_height="0dp"
android:layout_marginStart="1dp"
android:layout_marginTop="1dp"
android:layout_marginEnd="1dp"
android:layout_marginBottom="1dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="1.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

```

</androidx.constraintlayout.widget.ConstraintLayout>

## OUTPUT:





**Q2). Design an App for the gmail header. Whenever the user enters an email in the To section create a chipbutton with photo and the email. It should also contain close button to remove the chip button.**

**JAVA CODE:**

```
package com.example.lab11;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.KeyEvent;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.EditText;
import android.widget.Spinner;
import com.google.android.material.chip.Chip;
import com.google.android.material.chip.ChipGroup;
public class MainActivity extends AppCompatActivity {
    String[]

    emails={"heyfromrachel@gmail.com","chris@gmail.com","tony@gmail.com","banne
r@gmail.com","thor@gmail.com","clint@gmail.com","vision@gmail.com"};
    String[] names={"Peyton Smith","Chris Evans","Tony Stark","Bruce
```

```

Banner","Thor","Clint Barton","Vision"};
int

images[]={R.drawable.pic,R.drawable.pic1,R.drawable.pic1,R.drawable.pic,R.d
rawable.pic1,R.drawable.pic,R.drawable.pic1,R.drawable.dog};
int count=0;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    ArrayAdapter a2=new ArrayAdapter(this,
    android.R.layout.simple_spinner_dropdown_item, emails);
    Spinner s1=findViewById(R.id.spinner);
    s1.setAdapter(a2);
    ChipGroup h1=findViewById(R.id.ChipGroup);
    s1.setOnItemClickListener(new
    AdapterView.OnItemClickListener() {
        @Override
        public void
        onItemClick(AdapterView<?> adapterView, View
        view, int i, long
        l) {
            Chip c=new
            Chip(MainActivity.this);
            // h1.removeAllViews();
            c.setId(count);
            c.setText(names[i]);

            c.setCloseIconVisible(true);

            c.setIconStartPadding(20);

            c.setChipMinHeight(100);

            c.setChipIconResource(images[i]);
            c.setChipIconSize(70);

            c.setOnCloseIconClickListener(new View.OnClickListener() {
                @Override
                public void
                onClick(View view)
                {

                    h1.removeView(view);
                    count--;
                }
            }

```

```

    });
    h1.addView(c);
    count++;
    }
    @Override
    public void
    onNothingSelected(AdapterView<?> adapterView) {
    }
    });
    EditText t1=findViewById(R.id.edittext);
    t1.setOnKeyListener(new View.OnKeyListener() {
    @Override
    public boolean onKey(View view, int i, KeyEvent keyEvent) {
    if((keyEvent.getAction() == KeyEvent.ACTION_DOWN) &&
    i==KeyEvent.KEYCODE_ENTER &&
    !t1.getText().toString().equals("")){
    // Toast.makeText(MainActivity.this, "Enter",
    Toast.LENGTH_SHORT).show();
    Chip c=new Chip(MainActivity.this);
    c.setText(t1.getText().toString());
    c.setCloseIconVisible(true);
    c.setIconStartPadding(20);
    c.setChipMinHeight(100);
    c.setChipIconResource(images[count%8]);
    t1.setText("");
    t1.setNextFocusDownId(R.id.edittext);
    c.setChipIconSize(70);
    h1.addView(c);
    count++;
    c.setOnCloseIconClickListener(new

    View.OnClickListener() {
    @Override
    public void
    onClick(View view)
    {

    h1.removeView(view);
    count--;
    }
    });
    return true;
    }
    else if((keyEvent.getAction() == KeyEvent.ACTION_DOWN) &&
    i==KeyEvent.KEYCODE_DEL){
    if(count>0){

```

```

h1.removeViewAt(count-1);
count--;
return true;
}
}
return false;
}
});
}

```

## **XML :**

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <Spinner
        android:id="@+id/spinner"
        android:layout_width="370dp"
        android:layout_height="37dp"
        android:layout_marginTop="64dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <TextView
        android:id="@+id/toemail"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="128dp"
        android:text="To:"
        app:layout_constraintEnd_toStartOf="@+id/horizontalScrollView"
        app:layout_constraintHorizontal_bias="0.509"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <EditText
        android:id="@+id/textView2"
        android:layout_width="370dp"
        android:layout_height="50dp"
        android:layout_marginTop="32dp"
        android:background="@color/white"

```

```

android:hint="Subject"
android:textSize="15dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.609"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/toemail" />
<EditText
android:id="@+id/textView3"
android:layout_width="370dp"
android:layout_height="40dp"
android:layout_marginTop="16dp"
android:background="@color/white"
android:hint="Message"
android:textSize="16dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.609"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView2" />
<View
android:id="@+id/divider"
android:layout_width="409dp"
android:layout_height="0.2dp"
android:layout_marginTop="172dp"
android:background="?android:attr/listDivider"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<View
android:id="@+id/divider3"
android:layout_width="409dp"
android:layout_height="0.2dp"
android:layout_marginTop="108dp"
android:background="?android:attr/listDivider"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<View
android:id="@+id/divider2"
android:layout_width="409dp"
android:layout_height="0.2dp"
android:layout_marginTop="236dp"
android:background="?android:attr/listDivider"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<HorizontalScrollView

```



```
android:id="@+id/horizontalScrollView"
android:layout_width="330dp"
android:layout_height="59dp"
android:layout_marginTop="112dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.753"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent">
<LinearLayout
android:layout_width="wrap_content"
android:layout_height="match_parent"
android:orientation="horizontal">
<com.google.android.material.chip.ChipGroup
android:id="@+id/ChipGroup"
android:layout_width="match_parent"
android:layout_height="match_parent"
app:singleLine="true">
</com.google.android.material.chip.ChipGroup>
<EditText
android:id="@+id/edittext"
android:layout_width="300dp"
android:layout_height="50dp"
android:paddingStart="10dp"
android:background="@color/white"
android:inputType="text" />
</LinearLayout>
</HorizontalScrollView>
</androidx.constraintlayout.widget.ConstraintLayout>
```

## **OUTPUT :**

heyfromrachel@gmail.com

To: Peyton Smith

Subject

Message

heyfromrachel@gmail.com

To: Peyton Smith temp name

Subject

Message

heyfromrachel@gmail.com

To: Peyton Smith temp

Subject

Message