Academic year: 2021-2022   Branch/ Class: B.Tech
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1. Create a listview with the following items. When ever the item is clicked,
   send the information about the bike and travel time.
   Read the images, mode of transport and travel time in arrays
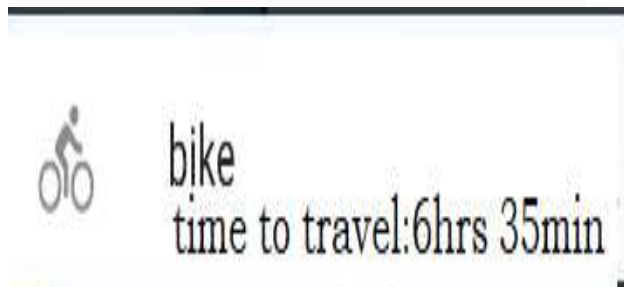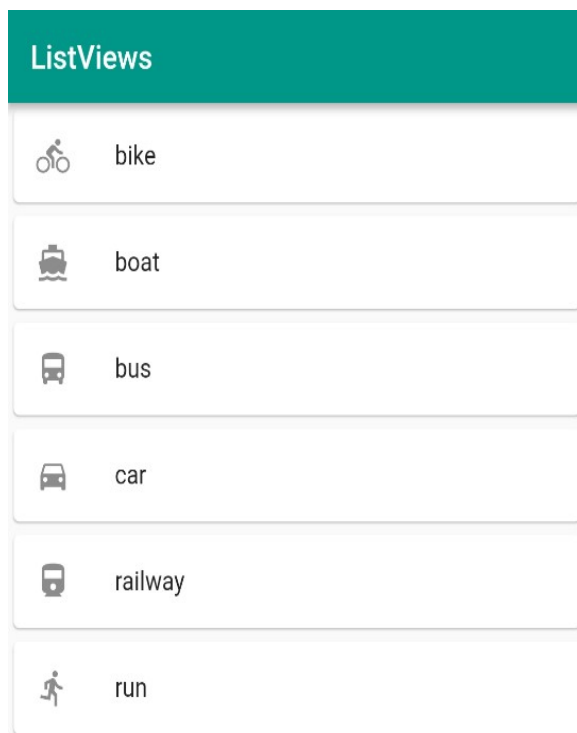
MainActivity.java:

```
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
```

```java
import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.ImageView;
import android.widget.ListView;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    String names[]={"bike","boat","bus","car","rail","run"};
    String desc[]={"Time to travel: 6hrs","Time to travel: 15hrs","Time to
travel: 7hrs","Time to travel: 8hrs","Time to travel: 5hrs","Time to
travel: 16hrs"};
    int
images[]={R.drawable.bicycle,R.drawable.boat,R.drawable.bus,R.drawable.car,
R.drawable.train,R.drawable.run};
    ListView lv;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        lv=findViewById(R.id.lsv);
        lv.setAdapter(new MyAdapter(this));
    }
    private class MyAdapter extends BaseAdapter {
        Context context;
        public MyAdapter(MainActivity mainActivity){
            context=mainActivity;
        }
        @Override
        public int getCount() {
            return names.length;
        }
        @Override
        public Object getItem(int i) {
            return null;
        }
        @Override
        public long getItemId(int i) {
            return 0;
        }
        @Override
        public View getView(int i, View view, ViewGroup viewGroup) {
            View V=
LayoutInflater.from(context).inflate(R.layout.layout,viewGroup,false);
            TextView t1=V.findViewById(R.id.textView);
            ImageView img=V.findViewById(R.id.imageView);
            t1.setText(names[i]);
            img.setImageResource(images[i]);
            V.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    Intent intent=new
Intent(getApplicationContext(),MainActivity2.class);
                    intent.putExtra("name",names[i]);
                    intent.putExtra("desc",desc[i]);
                    intent.putExtra("image",images[i]);
```

```
                    startActivity(intent);
                }
            });
            return V;
        }
    }
}
```

activity_main.xml:
```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="match_parent"
        android:layout_height="match_parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Layout.xml:
```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:id="@+id/constraint"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="403dp"
        android:layout_height="155dp"
        tools:layout_editor_absoluteX="2dp"
        tools:layout_editor_absoluteY="0dp"
        tools:srcCompat="@tools:sample/avatars" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="406dp"
        android:layout_height="81dp"
        android:text="TextView"
        tools:layout_editor_absoluteX="474dp"
        tools:layout_editor_absoluteY="37dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity2.java:
```java
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.ImageView;
import android.widget.TextView;
public class MainActivity2 extends AppCompatActivity {
    TextView t1,t2;
```

```java
    ImageView imageView;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main3);
        t1=findViewById(R.id.textView2);
        t2=findViewById(R.id.textView3);
        imageView=findViewById(R.id.imageView2);
        Intent in=getIntent();
        t1.setText(in.getStringExtra("name"));
        t2.setText(in.getStringExtra("desc"));
        imageView.setImageResource(in.getIntExtra("image",0));
    }
}
```

activity_main3.xml:

```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=".MainActivity2">
<ImageView
    android:id="@+id/imageView2"
    android:layout_width="212dp"
    android:layout_height="183dp"
tools:layout_editor_absoluteX="105dp"
tools:layout_editor_absoluteY="34dp"
tools:srcCompat="@tools:sample/avatars" />
<TextView
android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="TextView"
    android:textSize="20dp"
    android:textStyle="bold"
tools:layout_editor_absoluteX="163dp"
tools:layout_editor_absoluteY="258dp" />
<TextView
android:id="@+id/textView3"
    android:layout_width="331dp"
    android:layout_height="83dp"
    android:text="TextView"
    android:textSize="20dp"
    android:textStyle="bold"
tools:layout_editor_absoluteX="51dp"
tools:layout_editor_absoluteY="377dp" />
    </androidx.constraintlayout.widget.ConstraintLayout>
```