MainActivity.java:

**public class** MainActivity **extends** AppCompatActivity {  
  
 ListView **listView**;  
 TextView **textView**;  
 Button **addNew**;  
  
 ArrayList<String> **arrayList**;  
 DBClass **dbObj**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **textView** = (TextView)findViewById(R.id.***textView***);  
 **listView** = (ListView)findViewById(R.id.***listView***);  
 **addNew** = (Button)findViewById(R.id.***addNew***);  
  
 **arrayList** = **new** ArrayList<String>();  
 **dbObj** = **new** DBClass(**this**);  
  
 File folder = **new** File(Environment.*getExternalStorageDirectory*() + **"/LabFolder"**);  
 **if**(folder.isDirectory())  
 {  
 *//ReadData();* **arrayList**.add(**"Purchase"**);  
 **dbObj**.Insert(**"Purchase"**, **"Talk about a purchase you’ve made that you are happy with. Describe what you purchased and explain why you are happy about it."**);  
 **arrayList**.add(**"Generic"**);  
 **dbObj**.Insert(**"Generic"**, **"Talk about a time when you found a task harder to accomplish than you expected. What were you trying to accomplish? Why did it become difficult?"**);  
 **arrayList**.add(**"Personality"**);  
 **dbObj**.Insert(**"Personality"**, **"What personality quality do you think is most important in a good friend? Explain why."**);  
 **arrayList**.add(**"Country"**);  
 **dbObj**.Insert(**"Country"**, **"Choose a recent event in your country that people want to talk about. Why are people interested in the event? Explain with specific details and reasons."**);  
 **arrayList**.add(**"Future of country"**);  
 **dbObj**.Insert(**"Future of country"**, **"Imagine the ways in which your country will change over the next five years. Talk about one way you expect it to change. Use details to explain your answer."**);  
 **arrayList**.add(**"Famous person"**);  
 **dbObj**.Insert(**"Famous person"**, **"Choose a famous person who you think would be enjoyable to have a conversation with. Explain why you would like to talk with them, using specific details and reasons."**);  
 **arrayList**.add(**"School"**);  
 **dbObj**.Insert(**"School"**, **"Choose a subject that students study in school but you think is not important. Explain why you feel it is not important to study. Use details and examples in your response."**);  
 **arrayList**.add(**"Transportation"**);  
 **dbObj**.Insert(**"Transportation"**, **"What type of long-distance transportation do you think is most enjoyable? Explain why you like it with specific details and examples."**);  
 **arrayList**.add(**"Movie"**);  
 **dbObj**.Insert(**"Movie"**, **"Think of a movie you have not seen but would like to see. Explain why you expect to like the movie. Give specific details and reasons in your response."**);  
  
 ArrayAdapter<String> adapter = **new** ArrayAdapter<String>(**this**, android.R.layout.***simple\_list\_item\_1***, android.R.id.***text1***, **arrayList**);  
 **listView**.setAdapter(adapter);  
  
 **listView**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  
 @Override  
 **public void** onItemClick(AdapterView<?> adapterView, View view, **int** i, **long** l) {  
 **int** position = i;  
 String val = (String)**listView**.getItemAtPosition(position);  
 Intent redirect = **new** Intent(MainActivity.**this**, QuestionActivity.**class**);  
 redirect.putExtra(**"question"**, val);  
 startActivity(redirect);  
 }  
 });  
 }  
 **else** {  
 File fileDirectory = Environment.*getExternalStorageDirectory*();  
 fileDirectory = **new** File(fileDirectory+**"/music"**);  
 File fileList[] = fileDirectory.listFiles();  
 String fileName = fileList[0].getAbsolutePath();  
 File LabFolder = **new** File(**"/sdcard/LabFolder/"**);  
 LabFolder.mkdir();  
 File outputFile = **new** File(LabFolder, fileName);  
 **try** {  
 FileOutputStream fo = **new** FileOutputStream(outputFile);  
 }  
 **catch** (FileNotFoundException ex)  
 {}  
 }  
 }  
  
 **public void** ReadData()  
 {  
 File fileDirectory = Environment.*getExternalStorageDirectory*();  
 fileDirectory = **new** File(fileDirectory+**"/LabFolder"**);  
 File fileList[] = fileDirectory.listFiles();  
 **for**(**int** i = 0; i<fileList.**length**; i++)  
 {  
 **arrayList**.add(fileList[i].getName());  
 **dbObj**.Insert(fileList[i].getName(), fileList[i].getAbsolutePath());  
 }  
 ArrayAdapter<String> adapter = **new** ArrayAdapter<String>(**this**, android.R.layout.***simple\_list\_item\_1***, android.R.id.***text1***, **arrayList**);  
 **listView**.setAdapter(adapter);  
 }  
  
 **public void** AddNew(View view)  
 {  
 Intent redirect = **new** Intent(MainActivity.**this**, QuestionActivity.**class**);  
 startActivity(redirect);  
 }  
}

QuestionActivity.java:

**public class** QuestionActivity **extends** AppCompatActivity {  
  
 String **str** = **""**;  
 TextView **textView**;  
 Button **answer**;  
 **private** TextToSpeech **tts**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState)  
 {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_question***);  
  
 **textView** = (TextView)findViewById(R.id.***textView***);  
 **answer** = (Button)findViewById(R.id.***Answer***);  
  
 Bundle extras = getIntent().getExtras();  
 **if** (extras != **null**)  
 {  
 **str** = extras.getString(**"question"**);  
 *//The key argument here must match that used in the other activity* **textView**.setText(**str**.toString());  
 **tts** = **new** TextToSpeech(**this**, **new** TextToSpeech.OnInitListener() {  
 @Override  
 **public void** onInit(**int** status) {  
 **if** (status == TextToSpeech.***SUCCESS***) {  
 *// Change this to match your  
 // locale* **tts**.setLanguage(Locale.***US***);  
 **tts**.speak(**str**, TextToSpeech.***QUEUE\_FLUSH***, **null**);  
 }  
 }  
 });  
  
 }  
 }  
}

RecodingActivity.java:

**public class** RecordingActivity **extends** AppCompatActivity {  
  
 Button **Play**, **Stop**, **Record**;  
 MediaRecorder **recorder**;  
 String **outputFile**;  
  
 String **fileName** =**"file.3gp"**;  
  
 EditText **input**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_recording***);  
  
 **Play** = (Button)findViewById(R.id.***Play***);  
 **Stop** = (Button)findViewById(R.id.***Stop***);  
 **Record** = (Button)findViewById(R.id.***Record***);  
  
 **Stop**.setEnabled(**false**);  
 **Play**.setEnabled(**false**);  
  
 AlertDialog.Builder builder = **new** AlertDialog.Builder(RecordingActivity.**this**);  
 builder.setTitle(**"Save file"**);  
 builder.setIcon(R.drawable.***ic\_launcher\_foreground***);  
 builder.setMessage(**"Please provide the file name"**);  
  
 **input** = **new** EditText(RecordingActivity.**this**);  
 builder.setView(**input**);  
 builder.setPositiveButton(**"Submit"**, **new** DialogInterface.OnClickListener() {  
 @Override  
 **public void** onClick(DialogInterface dialogInterface, **int** i) {  
 **fileName** = **input**.getText().toString();  
 **fileName** = **fileName** + **".3gp"**;  
 Toast.*makeText*(getApplicationContext(), **fileName**, Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 builder.setNegativeButton(**"Cancel"**, **new** DialogInterface.OnClickListener() {  
 @Override  
 **public void** onClick(DialogInterface dialogInterface, **int** i) {  
  
 }  
 });  
  
 **final** AlertDialog ad = builder.create();  
  
  
 **outputFile** = Environment.*getExternalStorageDirectory*().getAbsolutePath() + **"/LabFolder/"** +**fileName**; *//file.3gp";* **recorder** = **new** MediaRecorder();  
 **recorder**.setAudioSource(MediaRecorder.AudioSource.***MIC***);  
 **recorder**.setOutputFormat(MediaRecorder.OutputFormat.***THREE\_GPP***);  
 **recorder**.setAudioEncoder(MediaRecorder.OutputFormat.***AMR\_NB***);  
 **recorder**.setOutputFile(**outputFile**);  
  
  
  
  
 **Record**.setOnClickListener(**new** View.OnClickListener()  
 {  
 @Override  
 **public void** onClick(View view) {  
 **try** {  
 **recorder**.prepare();  
 **recorder**.start();  
 }  
 **catch** (IllegalStateException e)  
 {}  
 **catch** (IOException io)  
 {}  
 **Record**.setEnabled(**false**);  
 **Stop**.setEnabled(**true**);  
 Toast.*makeText*(getApplicationContext(),**"Recording started"**, Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 **Stop**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 **recorder**.stop();  
 **recorder**.release();  
 **recorder** = **null**;  
 **Record**.setEnabled(**true**);  
 **Stop**.setEnabled(**false**);  
 **Play**.setEnabled(**true**);  
 Toast.*makeText*(getApplicationContext(),**"Please save the file"**, Toast.***LENGTH\_LONG***).show();  
  
 ad.show();  
 }  
 });  
 **Play**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 MediaPlayer mediaPlayer = **new** MediaPlayer();  
 **try** {  
 mediaPlayer.setDataSource(**outputFile**);  
 mediaPlayer.prepare();  
 mediaPlayer.start();  
 Toast.*makeText*(getApplicationContext(),**"Playing Audio"**, Toast.***LENGTH\_LONG***).show();  
 }  
 **catch** (Exception e)  
 {}  
 }  
 });  
 }  
}