

1activity_main.xml

Details

Activity

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <TextView
            android:id="@+id/textView3"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_toRightOf="@id/imageView"
            android:layout_weight="1"
            android:text="Visveswaraya Technological University,Belagavi"
            android:textSize="25dp" />

        <ImageView
            android:id="@+id/imageView"
            android:layout_width="85dp"
            android:layout_height="85dp"

            app:srcCompat="@drawable/vtu_logo" />
    </RelativeLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">

        <View
            android:id="@+id/divider2"
            android:layout_width="match_parent"
            android:layout_height="1dp"
            android:background="?android:attr/listDivider" />

        <View
            android:id="@+id/view2"
            android:layout_width="match_parent"
            android:layout_height="66dp"
            android:background="#3F51B5" />

        <Space
            android:layout_width="match_parent"
            android:layout_height="20dp"
            android:background="#FF9800"
            android:outlineAmbientShadowColor="@color/black"/>

        <View
            android:id="@+id/divider"
            android:layout_width="match_parent"
```

```

        android:layout_height="1dp"
        android:background="?android:attr/listDivider" />

<TextView
    android:id="@+id/textView7"
    android:layout_width="match_parent"
    android:layout_height="60dp"
    android:text="Sahyadri_cs"
    android:textSize="34dp" />

<TextView
    android:id="@+id/textView8"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Student"
    android:textSize="34dp"
    tools:ignore="DuplicateIds" />
<TextView
    android:id="@+id/textView7"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Phone"
    android:textSize="34dp"
    tools:ignore="DuplicateIds" />

<TextView
    android:id="@+id/textView7"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="877777777"
    android:textSize="34dp"
    tools:ignore="DuplicateIds" />
<TextView
    android:id="@+id/textView7"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="email@eamil.com"
    android:textSize="34dp"
    tools:ignore="DuplicateIds" />

<View
    android:id="@+id/view"
    android:layout_width="match_parent"
    android:layout_height="382dp" />

</LinearLayout>

</LinearLayout>

```

2MainActivity.java

Details

Activity

```
package com.example.calculator;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import java.util.regex.Pattern;

public class MainActivity extends AppCompatActivity {
    Button btn0,btn1,btn2,btn3,btn4,btn5,btn6,btn7,btn8,btn9;
    Button btnAdd,btnSub,btnMul,btnDiv,btnEqual,btnDot,btnClear;
    EditText display;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        btn0=(Button) findViewById(R.id.btn0);
        btn1=(Button) findViewById(R.id.btn1);
        btnAdd =(Button) findViewById(R.id.btnAdd);
        btnClear=(Button) findViewById(R.id.btnC);
        btnEqual=(Button) findViewById(R.id.btnE);
        display =(EditText) findViewById(R.id.Disp);
        btn0.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                display.append("0");
            }
        });
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                display.append("1");
            }
        });
        btnAdd.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                display.append("+");
            }
        });
        btnClear.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                display.setText("");
            }
        });
        btnEqual.setOnClickListener(new View.OnClickListener() {
```

```

@Override
public void onClick(View v) {
    String data = display.getText().toString();
    if(data.contains("-")){
        String operands[] = data.split("-");
        double op1 = Double.parseDouble(operands[0]);
        double op2 = Double.parseDouble(operands[1]);
        double res = op1-op2;
display.setText(String.valueOf(res));
    }
    if(data.contains("x")){
        String operands[] = data.split("x");
        double op1 = Double.parseDouble(operands[0]);
        double op2 = Double.parseDouble(operands[1]);
        double res = op1*op2;
        display.setText(String.valueOf(res));
    }
    if(data.contains("/")){

        String operands[] = data.split("/");
        double op1 = Double.parseDouble(operands[0]);
        double op2 = Double.parseDouble(operands[1]);

        if(op2==0){
            Toast.makeText(MainActivity.this,
                                "Divide by zero is not possible",
                                Toast.LENGTH_SHORT).show();
        }
        double res = op1/op2;
        display.setText(String.valueOf(res));
    }

    if(data.contains("+")){

        String operands[] =data.split(Pattern.quote("+"));
        double op1 = Double.parseDouble(operands[0]);
        double op2 = Double.parseDouble(operands[1]);
        double res = op1+op2;
        display.setText(String.valueOf(res));

    }

}

});
}
}

```

4MainActivity.java

Details

Activity

```
package com.example.harishawallpaperchange;

import androidx.appcompat.app.AppCompatActivity;

import android.app.WallpaperManager;
import android.graphics.BitmapFactory;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

import java.io.IOException;

import java.util.Timer;
import java.util.TimerTask;

public class MainActivity extends AppCompatActivity {
    int images[] = new int[]{ R.drawable.r1, R.drawable.r2,R.drawable.r3,
R.drawable.r4, R.drawable.r5, R.drawable.r6};
    Button btn;
    int i=0;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btn = findViewById(R.id.btn);
        btn.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v)
            {
                new Timer().schedule(new ChangeWallpaper(),0,3000);
            }
        });
    }
    class ChangeWallpaper extends TimerTask {
        // @SuppressWarnings("MissingPermission")
        @Override
        public void run() {
            WallpaperManager wallpaperManager =
WallpaperManager.getInstance(getApplicationContext());
            try
            {
                wallpaperManager.setBitmap(BitmapFactory.decodeResource(getResources(), images[i]));
                i++;
                if(i==6)
                {
                    i=0;
                }
            }
            catch (IOException e)
            {
                e.printStackTrace();
            }
        }
    }
}
```

```

    }
}

```

5MainActivity.java

Details

Activity

```

package com.example.counterharisha;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.os.Handler;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    private static final String TAG = "thread";
    Handler mainHandler = new Handler();
    int count=0;
    boolean running = false;
    Button startBtn,stopBtn;
    TextView counterVal;
    void startThread(){
        NewThread nObj = new NewThread();
        nObj.start();
    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        counterVal = findViewById(R.id.countervalue);
        startBtn = findViewById(R.id.startbtn);
        stopBtn = findViewById(R.id.stopbtn);
        startBtn.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {
                count=0;
                running=true;
                startThread();
            }
        });
        stopBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                running=false;
            }
        });
    }

    class NewThread extends Thread{

```

```

@Override
public void run() {
    while(running){
        count++;
        mainHandler.post(new Runnable() {
            //Override
            public void run() {
                counterVal.setText(String.valueOf(count));
            }
        });
        try { Thread.sleep(1000);
        } catch (InterruptedException e) {
            e.printStackTrace();
        }
    }
}
}
}

```

7 MainActivity.java

Details

Activity

```

package com.example.texttospeech;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.speech.tts.TextToSpeech;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

import java.util.Locale;

public class MainActivity extends AppCompatActivity {
    EditText enteredValue;
    Button speakBtn; TextToSpeech textToSpeech;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        speakBtn = findViewById(R.id.speakBtn);
        enteredValue = findViewById(R.id.enteredValue);

        textToSpeech = new TextToSpeech(MainActivity.this, new
            TextToSpeech.OnInitListener() {
                @Override
                public void onInit(int status) {

                    if(status == TextToSpeech.SUCCESS){
                        textToSpeech.setLanguage(Locale.ENGLISH);
                    }
                    else{

```

```

        Log.e("failed", "onInit: Failed");
    }
}

});

speakBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        String text = enteredValue.getText().toString();
        textToSpeech.speak(text, TextToSpeech.QUEUE_FLUSH, null);

    }
});
}
}

```

8MainActivity.java

Details

Activity

```

package com.example.phonecall;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.provider.ContactsContract;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    EditText display;
    Button btn1, btn2, btn3, btn4, btn5, btn6, btn7, btn8, btn9, btn0;
    Button btnCall, btnSave, btnStar, btnHash, btnRemove;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        btn0 = findViewById(R.id.btn0);
        btn1 = findViewById(R.id.btn1);
        btn2 = findViewById(R.id.btn2);
        btn3 = findViewById(R.id.btn3);
        btn4 = findViewById(R.id.btn4);
        btn5 = findViewById(R.id.btn5);
        btn6 = findViewById(R.id.btn6);
        btn7 = findViewById(R.id.btn7);
        btn8 = findViewById(R.id.btn8);
        btn9 = findViewById(R.id.btn9);
        btnCall = findViewById(R.id.btnCall);
        btnSave = findViewById(R.id.btnSave);
    }
}

```



```
btnRemove = findViewById(R.id.btnRemove);
btnStar = findViewById(R.id.btnStar);
btnHash = findViewById(R.id.btnHash);
display = findViewById(R.id.display);

btn0.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        display.append("0");
    }
});

btn1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        display.append("1");
    }
});

btn2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        display.append("2");
    }
});

btn3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        display.append("3");
    }
});

btn4.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        display.append("4");
    }
});

btn5.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        display.append("5");
    }
});

btn6.setOnClickListener(new View.OnClickListener() {
    @Override
```

```

        public void onClick(View v) {
            display.append("6");
        }
    });

    btn7.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            display.append("7");
        }
    });

    btn8.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            display.append("8");
        }
    });

    btn9.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            display.append("9");
        }
    });

    btnStar.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            display.append("*");
        }
    });

    btnHash.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            display.append("#");
        }
    });

    btnCall.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            String data = display.getText().toString();
            Intent intent = new Intent(Intent.ACTION_DIAL);
            intent.setData(Uri.parse("tel:"+data));
            startActivity(intent);
        }
    });
}

```

```

        btnSave.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String data = display.getText().toString();
                Intent intent = new
Intent(ContactsContract.Intents.Insert.ACTION);

                intent.setType(ContactsContract.RawContacts.CONTENT_TYPE);

intent.putExtra(ContactsContract.Intents.Insert.NAME, "Unknown");

intent.putExtra(ContactsContract.Intents.Insert.PHONE, data);

                startActivity(intent);
            }
        });

        btnRemove.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {

                String data = display.getText().toString();

                if(data.length()>0){
                    String val = data.substring(0,data.length()-1);
                    display.setText(val);
                }
                else{
                    display.setText("");
                }
            }
        });
    }
}

```