

MOBILE APPLICATION DEVELOPMENT

Lab 3



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Activity 1: Activity Life Cycle

```
<?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">
```

```
package com.example.activitylifecycle;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Window;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    TextView txt;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        txt=findViewById(R.id.textView);
        txt.setText("Application is in creation state");
    }
    @Override
    protected void onStart() {
        super.onStart();
        txt.setText(txt.getText().toString()+"\nApplication is in start state");
    @Override
    protected void onResume() {
        super.onResume();
        txt.setText(txt.getText().toString()+"\nApplication is in resume state");
```

```
@Override
protected void onPause() {
    super.onPause();
    txt.setText(txt.getText().toString()+"\nApplication is in pause state");
@Override
protected void onStop() {
    super.onStop();
   txt.setText(txt.getText().toString()+"\nApplication is in stop state");
@Override
protected void onRestart() {
    super.onRestart();
    txt.setText(txt.getText().toString()+"\nApplication is in restart state")
@Override
protected void onDestroy() {
    super.onDestroy();
    txt.setText(txt.getText().toString()+"\nApplication is in destroy state")
```



Application is in creation state
Application is in start state
Application is in resume state
Application is in pause state
Application is in resume state
Application is in pause state
Application is in stop state
Application is in restart state
Application is in start state
Application is in resume state

Activity 2: Mood Game

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.</pre>
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">
    <LinearLayout</pre>
        android:layout_width="match_parent"
        android:layout height="match parent"
        android:orientation="horizontal"
        app:layout constraintTop toTopOf="parent"
        android:background="#D3D3D3"
        <ImageView
            android:id="@+id/img"
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            android:layout weight="1"
            app:srcCompat="@drawable/hungry"
            />
    </LinearLayout>
    <LinearLayout
        android:id="@+id/linearLayout"
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:background="@color/purple 200"
        android:orientation="vertical"
        app:layout constraintBottom toBottomOf="parent"
        tools:layout editor absoluteX="0dp">
        <TextView
            android:id="@+id/text"
            android:layout width="match parent"
            android:layout height="wrap content"
```

```
android:text=" I am so hungry"
            android:textColor="@color/white"
            android:textSize="40sp" />
        <Button
            android:id="@+id/btn"
            android:layout width="200dp"
            android:layout height="wrap content"
            android:layout marginLeft="28dp"
            android:layout marginBottom="20dp"
            android:text="EAT COOKIE"
            android:textColor="@color/white"
            android:textSize="20sp"
            android:onClick="change"
            />
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.mood_game;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    public void change(View view) {
        Button btn = (Button) view;
        btn.setText("Done");
        ImageView img = (ImageView) findViewById(R.id.img);
        img.setImageResource(R.drawable.full);
        TextView txt = (TextView) findViewById(R.id.text);
        txt.setText("I am so full");
```





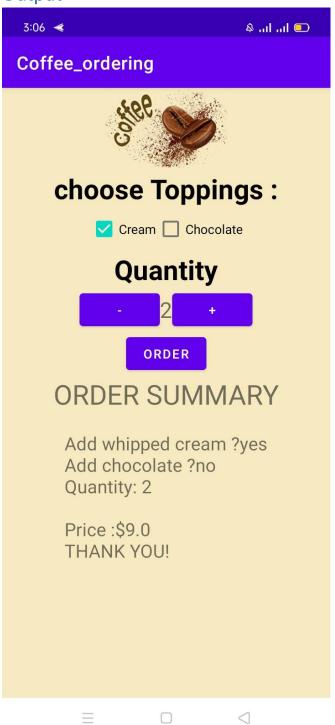
Activity 3: Coffee Ordering App

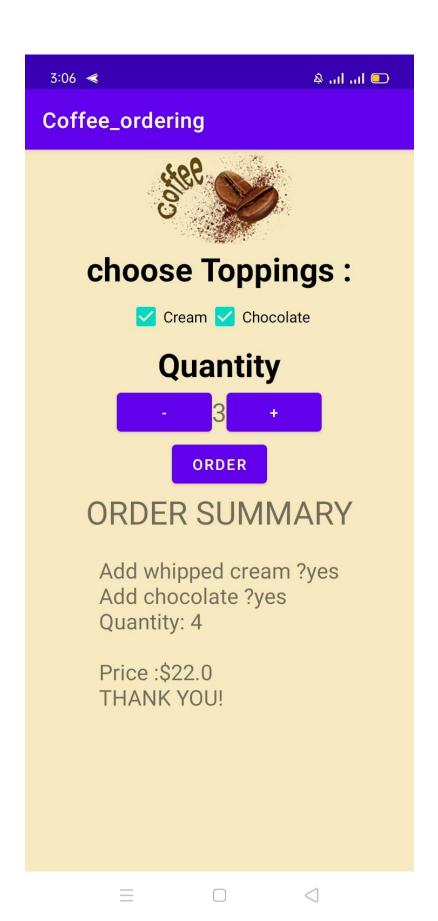
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    android:background="#F7EAC1"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <ImageView</pre>
        android:id="@+id/imageView"
        android:layout width="match parent"
        android:layout height="90dp"
        android:layout_weight="0"
        app:srcCompat="@drawable/coffee2b" />
    <TextView
        android:id="@+id/textView"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout_gravity="center"
        android:layout weight="0"
        android:gravity="center"
        android:textStyle="bold"
        android:textColor="@color/black"
        android:text="choose Toppings :"
        android:textSize="30sp" />
    <LinearLayout</pre>
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:layout_weight="0"
        android:gravity="center"
        android:orientation="horizontal">
        <CheckBox
            android:id="@+id/checkBox"
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:layout weight="0"
            android:tag="cream"
```

```
android:text="Cream" />
    <CheckBox
        android:id="@+id/checkBox2"
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:layout weight="0"
        android:tag="chocolate"
        android:text="Chocolate" />
</LinearLayout>
<TextView
    android:id="@+id/textView2"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout gravity="center"
    android:layout weight="0"
    android:text="Quantity"
    android:textStyle="bold"
    android:textColor="@color/black"
    android:textSize="30sp" />
<LinearLayout
    android:layout width="match parent"
    android:layout_height="wrap_content"
    android:layout weight="0"
    android:gravity="center"
    android:orientation="horizontal">
    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:layout weight="0"
        android:onClick="sub"
        android:tag="sub"
        android:text="-" />
    <TextView
        android:id="@+id/textView3"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout weight="0"
        android:text="0"
        android:textSize="24sp" />
```

```
<Button
            android:id="@+id/button3"
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            android:layout weight="0"
            android:onClick="add"
            android:tag="add"
            android:text="+" />
    </LinearLayout>
    <Button
        android:id="@+id/button4"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout gravity="center"
        android:layout weight="0"
        android:text="Order"
        android:onClick="ShowSummary"
        />
    <TextView
        android:id="@+id/textView4"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout gravity="center"
        android:layout weight="0"
        android:text="ORDER SUMMARY"
        android:textSize="30sp" />
    <TextView
        android:id="@+id/summary"
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:layout_gravity="center"
        android:layout weight="0"
        android:text=""
        android:layout_marginTop="20dp"
        android:maxLines="7"
        android:textSize="20sp" />
</LinearLayout>
```

```
package com.example.coffee_ordering;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.CheckBox;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    TextView txt;
    TextView summary;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        txt=(TextView)findViewById(R.id.textView3);
        summary=(TextView)findViewById(R.id.summary);
    public void add(View view){
        int text=Integer.parseInt(txt.getText().toString())+1;
        txt.setText(""+text);
    public void sub(View view){
        int text=Integer.parseInt(txt.getText().toString())-1;
        if(text>=0)
            txt.setText(""+text);
    }
    public void ShowSummary(View view){
         String cream="no";
         String choc="no";
         int qty=Integer.parseInt(txt.getText().toString());
         float amount=qty*4;
         CheckBox bx1=(CheckBox)findViewById(R.id.checkBox);
         CheckBox bx2=(CheckBox)findViewById(R.id.checkBox2);
         if(bx1.isChecked()) {
             cream = "yes";
            amount+=0.50*qty;
         if(bx2.isChecked()) {
```





Activity 4: Calculator

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout 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"
    <TableRow
        android:layout width="match parent"
        android:layout height="wrap content"
        android:background="#DAA04A"
       android:gravity="right"
        <TextView
            android:id="@+id/result"
            android:layout_width="wrap_content"
            android:layout height="140dp"
            android:text=""
            android:textSize="40sp"
            android:gravity="center"
    </TableRow>
    <TableRow
        android:layout width="match parent"
        android:layout_height="wrap_content"
        <Button
            android:id="@+id/AC"
            android:layout_height="100dp"
            android:layout width="0dp"
            android:layout_weight="2"
            android:background="#03A9F4"
            android:text="AC"
```

```
android:textColor="@color/black"
        android:textSize="30sp"
        app:backgroundTint="#6877CC"
        android:layout marginRight="5dp"
        android:onClick="clear"
        />
    <Button
        android:id="@+id/modulo"
        android:layout height="100dp"
        android:layout width="0dp"
        android:layout weight="1"
        android:text="%"
        android:textSize="30sp"
        android:backgroundTint="#C0C0C0"
        android:textColor="@color/black"
        android:layout_marginRight="5dp"
        android:onClick="number"
        />
    <Button
        android:id="@+id/divide"
        android:layout height="100dp"
        android:layout_weight="1"
        android:text="/"
        android:layout width="0dp"
        android:textSize="30sp"
        android:backgroundTint="#C0C0C0"
        android:textColor="@color/black"
        android:layout marginRight="5dp"
        android:onClick="number"
        />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout height="wrap content"
    android:layout_marginTop="5dp"
    <Button
        android:id="@+id/seven"
        android:layout_height="100dp"
        android:layout_weight="1"
```

```
android:text="7"
    android:layout width="0dp"
    android:textSize="30sp"
    android:backgroundTint="#C0C0C0"
    android:textColor="@color/black"
    android:layout marginRight="5dp"
    android:onClick="number"
    />
<Button
    android:id="@+id/eight"
    android:backgroundTint="#C0C0C0"
    android:layout_height="100dp"
    android:layout weight="1"
    android:text="8"
    android:textSize="30sp"
    android:layout width="0dp"
    android:textColor="@color/black"
    android:layout marginRight="5dp"
    android:onClick="number"
    />
<Button
    android:id="@+id/nine"
    android:layout_height="100dp"
    android:layout weight="1"
    android:text="9"
    android:textSize="30sp"
    android:layout width="0dp"
    android:backgroundTint="#C0C0C0"
    android:textColor="@color/black"
    android:layout_marginRight="5dp"
    android:onClick="number"
    />
<Button
    android:id="@+id/multiply"
    android:layout height="100dp"
    android:layout_weight="1"
    android:text="*"
    android:textSize="30sp"
    android:layout width="0dp"
    android:backgroundTint="#C0C0C0"
```

```
android:textColor="@color/black"
        android:layout marginRight="5dp"
        android:onClick="number"
        />
</TableRow>
<TableRow
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout_marginTop="5dp"
    <Button
        android:id="@+id/four"
        android:layout_height="100dp"
        android:layout_weight="1"
        android:text="4"
        android:layout width="0dp"
        android:textSize="30sp"
        android:backgroundTint="#C0C0C0"
        android:textColor="@color/black"
        android:layout_marginRight="5dp"
        android:onClick="number"
        />
    <Button
        android:id="@+id/five"
        android:backgroundTint="#C0C0C0"
        android:layout height="100dp"
        android:layout weight="1"
        android:text="5"
        android:textSize="30sp"
        android:layout_width="0dp"
        android:textColor="@color/black"
        android:layout_marginRight="5dp"
        android:onClick="number"
        />
    <Button
        android:id="@+id/six"
        android:layout_height="100dp"
        android:layout weight="1"
```

```
android:text="6"
        android:textSize="30sp"
        android:layout_width="0dp"
        android:backgroundTint="#C0C0C0"
        android:textColor="@color/black"
        android:layout_marginRight="5dp"
        android:onClick="number"
        />
    <Button
        android:id="@+id/sub"
        android:layout_height="100dp"
        android:layout_weight="1"
        android:text="-"
        android:textSize="30sp"
        android:layout width="0dp"
        android:backgroundTint="#C0C0C0"
        android:textColor="@color/black"
        android:layout_marginRight="5dp"
        android:onClick="number"
        />
</TableRow>
<TableRow
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout_marginTop="5dp"
    <Button
        android:id="@+id/one"
        android:layout_height="100dp"
        android:layout weight="1"
        android:text="1"
        android:layout width="0dp"
        android:textSize="30sp"
        android:backgroundTint="#C0C0C0"
        android:textColor="@color/black"
        android:layout marginRight="5dp"
```

```
android:onClick="number"
    />
<Button
    android:id="@+id/two"
    android:backgroundTint="#C0C0C0"
    android:layout_height="100dp"
    android:layout weight="1"
    android:text="2"
    android:textSize="30sp"
    android:layout_width="0dp"
    android:textColor="@color/black"
    android:layout marginRight="5dp"
    android:onClick="number"
    />
<Button
    android:id="@+id/three"
    android:layout_height="100dp"
    android:layout weight="1"
    android:text="3"
    android:textSize="30sp"
    android:layout_width="0dp"
    android:backgroundTint="#C0C0C0"
    android:textColor="@color/black"
    android:layout_marginRight="5dp"
    android:onClick="number"
    />
<Button
    android:id="@+id/plus"
    android:layout height="100dp"
    android:layout weight="1"
    android:text="+"
    android:textSize="30sp"
    android:layout_width="0dp"
    android:backgroundTint="#C0C0C0"
    android:textColor="@color/black"
    android:layout marginRight="5dp"
    android:onClick="number"
```

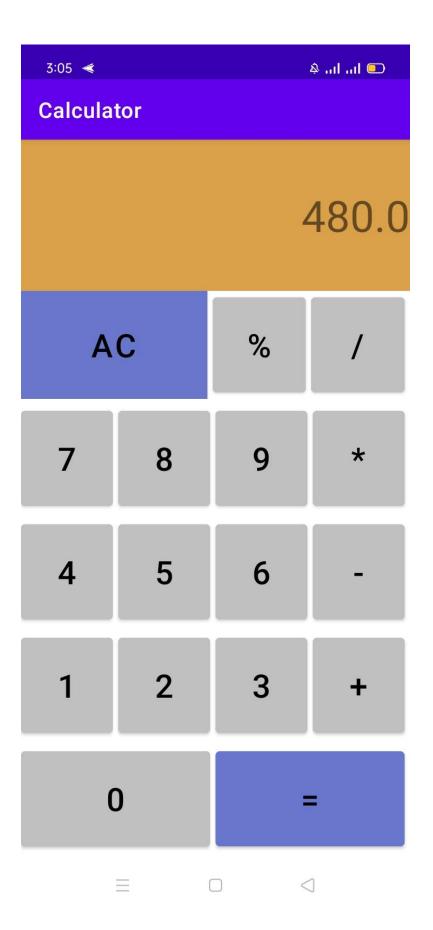
```
</TableRow>
    <TableRow
        android:layout_width="match_parent"
        android:layout height="wrap content"
        android:layout_marginTop="5dp"
        <Button
            android:id="@+id/zero"
            android:layout height="100dp"
            android:layout weight="1"
            android:text="0"
            android:layout width="0dp"
            android:textSize="30sp"
            android:backgroundTint="#C0C0C0"
            android:textColor="@color/black"
            android:layout_marginRight="5dp"
            android:onClick="number"
            />
        <Button
            android:id="@+id/equal"
            android:layout_height="100dp"
            android:layout weight="1"
            android:text="="
            android:textSize="30sp"
            android:layout width="0dp"
            android:textColor="@color/black"
            android:layout marginRight="5dp"
            app:backgroundTint="#6877CC"
            android:onClick="result"
            />
    </TableRow>
</TableLayout>
```

```
package com.example.calculator;
import java.util.Stack;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    TextView rs;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        rs=(TextView)findViewById(R.id.result);
    public void number(View view){
        if(rs.getText().equals("Invalid Expression"))
            rs.setText("");
        Button btn=(Button)view;
        String text=rs.getText().toString()+btn.getText();
        rs.setText(text);
    public void result(View view){
            String exp=rs.getText().toString().replace("%","*1/100*");
            try {
                rs.setText("" + evaluatePostfix(infixToPostfix(exp)));
            catch (Exception e){
                rs.setText("Invalid Expression");
            }
    public void clear(View view){
        rs.setText("");
    public int Prec(char ch)
```

```
switch (ch)
        case '+':
        case '-':
            return 1;
        case '*':
        case '/':
            return 2;
    return -1;
public String infixToPostfix(String exp)
    String result = "";
      Stack<Character> stack = new Stack<>();
    for (int i = 0; i<exp.length(); ++i)</pre>
        char c = exp.charAt(i);
        if (Character.isDigit(c))
            result+= c;
        else // an operator is encountered
            result+=" ";
            while (!stack.isEmpty() && Prec(c)
                    <= Prec(stack.peek()))</pre>
                result += stack.pop();
            stack.push(c);
    while (!stack.isEmpty()){
        result += stack.pop();
    return result;
```

```
public float evaluatePostfix(String exp)
    //create a stack
    Stack<Float> stack = new Stack<>();
    String d="";
    // Scan all characters on e by one
    for(int i = 0; i < exp.length(); i++)</pre>
        char c = exp.charAt(i);
        if(c == ' '){
            if(d.length()>0)
                stack.push(Float.parseFloat(d));
            d="";
        else if(Character.isDigit(c))
            d+=c;
      else
            System.out.println(c);
            if(d.length()>0) {
                stack.push(Float.parseFloat(d));
                d="";
            float val1 = stack.pop();
            float val2 = stack.pop();
            switch(c)
                case '+':
                    stack.push(val2+val1);
                    break;
                case '-':
                    stack.push(val2- val1);
                    break;
```





Activity 5: Hangman

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    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">
    <TextView
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:layout gravity="center"
        android:text="Hangman"
        android:textSize="36sp"
    <LinearLayout</pre>
        android:layout_width="match_parent"
        android:layout height="wrap content"
        android:orientation="horizontal">
        <ImageView</pre>
            android:id="@+id/img"
            android:layout width="0dp"
            android:layout height="150dp"
            android:layout_weight="1"
            app:srcCompat="@drawable/hangman0" />
        <LinearLayout</pre>
            android:layout width="0dp"
            android:layout_height="match_parent"
            android:layout weight="2"
            android:orientation="vertical">
            <TextView
                android:id="@+id/textView5"
                android:layout width="match parent"
                android:layout height="wrap content"
                android:text="The word:"
                android:textSize="24sp" />
```

```
<TextView
            android:id="@+id/wordview"
            android:layout_width="match parent"
            android:layout height="match parent"
            android:text="TextView"
            android:textSize="30sp" />
    </LinearLayout>
</LinearLayout>
<LinearLayout</pre>
    android:layout width="match parent"
    android:layout height="wrap content"
    android:orientation="horizontal">
    <EditText
        android:id="@+id/txt"
        android:layout width="0dp"
        android:layout height="wrap content"
        android:layout marginStart="10dp"
        android:layout marginLeft="10dp"
        android:layout_weight="1"
        android:digits="abcdefghijklmnopqrstuvwxyz"
        android:inputType="textPersonName"
        android:maxLength="1" />
    <Button
        android:id="@+id/guess"
        android:layout width="0dp"
        android:layout height="wrap content"
        android:layout marginStart="20dp"
        android:layout_marginLeft="20dp"
        android:layout weight="1"
        android:onClick="Guessword"
        android:text="Guess" />
    <Button
        android:id="@+id/New"
        android:layout_width="0dp"
        android:layout height="wrap content"
        android:layout marginStart="20dp"
        android:layout_marginLeft="20dp"
        android:layout marginEnd="10dp"
        android:layout_marginRight="10dp"
        android:layout_weight="1"
```

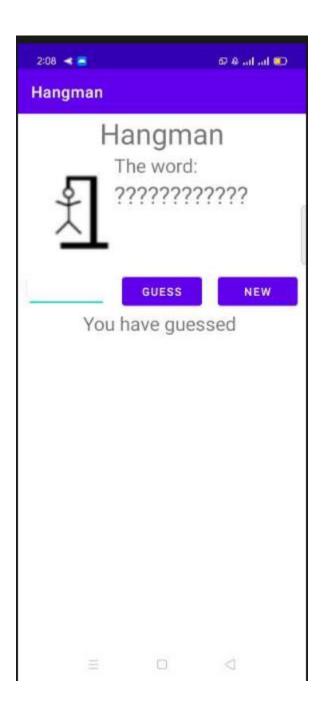
```
package com.example.hangman;
import androidx.appcompat.app.AppCompatActivity;
import android.graphics.drawable.Drawable;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;
import java.util.Random;
public class MainActivity extends AppCompatActivity {
    String word;
    TextView guessedword;
    EditText txt;
    ImageView img1;
    String[] imgaddr;
    int imgnum;
    Random rand;
    String guessedwords;
    TextView guessview;
    Button guessBtn;
```

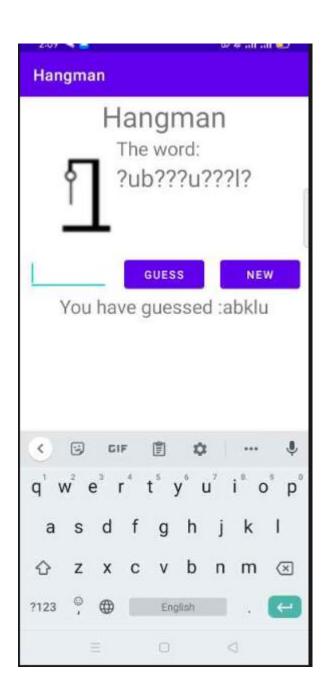
```
Button NewBtn;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    rand=new Random();
    word=getResources().getStringArray(R.array.words)[rand.nextInt(5441)];
    guessedword=(TextView)findViewById(R.id.wordview);
    guessedword.setText(word.replaceAll(".","?"));
    guessview=(TextView)findViewById(R.id.guessview);
    guessBtn=(Button)findViewById(R.id.guess);
    NewBtn=(Button)findViewById(R.id.New);
    imgaddr= new String[]{
            "@drawable/hangman6",
            "@drawable/hangman5",
            "@drawable/hangman4",
            "@drawable/hangman3",
            "@drawable/hangman2",
            "@drawable/hangman1",
            "@drawable/hangman0"};
    imgnum=0;
    guessedwords="";
public void Guessword(View view){
    txt=(EditText)findViewById(R.id.txt);
    char[] temp=guessedword.getText().toString().toCharArray();
    if(guessedwords.contains(txt.getText().toString())) {
        Toast.makeText(this, "Already entered", Toast.LENGTH_LONG).show();
        txt.setText("");
        return;
    boolean check=true;
    guessedwords+=txt.getText().toString();
    guessview.setText("You have guessed :"+guessedwords);
    for(int i=0;i<word.length();i++) {</pre>
        if (word.charAt(i) == txt.getText().charAt(0)) {
            temp[i] = word.charAt(i);
            check = false;
    txt.setText("");
```

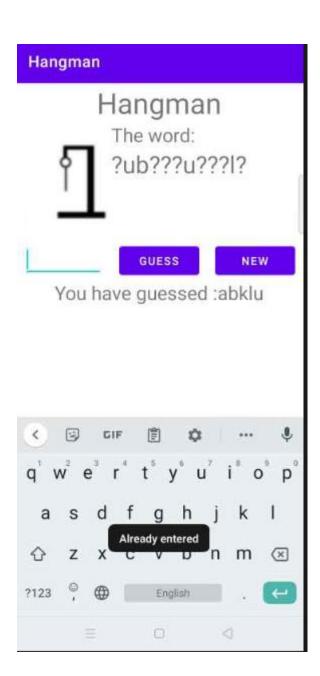
```
String str=new String(temp);
        if(str.equals(word)) {
            Toast.makeText(this, "You win", Toast.LENGTH LONG).show();
            guessBtn.setEnabled(false);
            return;
        guessedword.setText(str);
        if(check){
            if(++imgnum>=7) {
                Toast.makeText(this, "Game Over word is "+word, Toast.LENGTH_LONG
).show();
                guessBtn.setEnabled(false);
                return;
        int imageResource = getResources().getIdentifier(imgaddr[imgnum], null, g
etPackageName());
        img1= (ImageView)findViewById(R.id.img);
        Drawable res = getResources().getDrawable(imageResource);
        img1.setImageDrawable(res);
    public void newWord(View view){
        guessBtn.setEnabled(true);
        guessview.setText("You have guessed : ");
        word=getResources().getStringArray(R.array.words)[rand.nextInt(5441)];
        guessedword.setText(word.replaceAll(".","?"));
        img1.setImageResource(R.drawable.hangman6);
        imgnum=0;
        guessedwords="";
```

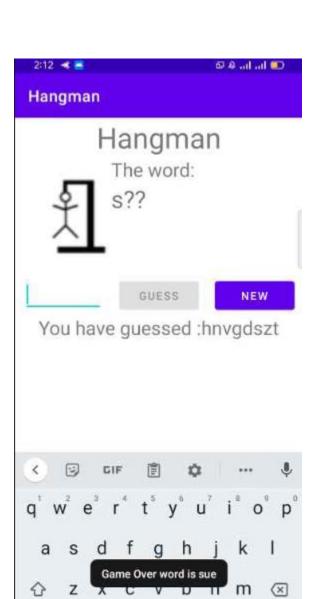
Android Manifest File

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    package="com.example.hangman">
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Hangman">
        <activity android:name=".MainActivity"
            android:configChanges="keyboardHidden|orientation|screenSize|screenLa
yout"
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```









English



You have guessed :hkpcrfe

