

Week-1

1. Click on the below link and download the Java JDK.

x64 Compressed Archive

183.11 MB

https://download.oracle.com/java/20/latest/jdk-20_linux-x64_bin.tar.gz (sha256)

2. After downloading the Java JDK Install it.
3. After installation open the bin folder and copy the address C:\Program Files\Java\jdk-20.0.2\bin and paste into the **Path** variable in the Environment variable.
4. Go to Google and search Android Studio SDK download.
5. Click on Download Android studio Giraffe.

☒ I have read and agree with the above terms and conditions

Download Android Studio Giraffe | 2022.3.1 Patch 1 for Windows

6. After downloading Install, it.
7. After Installation open the Android studio.
8. Go to Device Manager on the right side menu of the Android Studio.
9. Click on **Create Device** and Select the Phone and Pixel 7 Pro
10. Click Next and download R and click Next and click Finish.

activity_main.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">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Main Activity.Java

```
package com.cmrit.helloworld;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {

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

Week-2

Develop mobile apps with menu options for Dial number, Open website and Send SMS. On selecting an option, the appropriate action should be invoked using intents.

activity_main.xml

```
<?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">
    <TextView
        android:id="@+id/tv1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Menu options"
        android:textAlignment="center"
        android:textSize="40sp"
        android:textStyle="italic"/>
    <Button
        android:id="@+id/b1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="2dp"
        android:text="Phone"
        android:textSize="25sp"
        android:textStyle="italic"
        android:textAllCaps="true"/>
    <Button
        android:id="@+id/b2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="2dp"
```

```

    android:text="SMS"
    android:textSize="25sp"
    android:textStyle="italic"
    android:textAllCaps="true"/>
<Button
    android:id="@+id/b3"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Website"
    android:textSize="25sp"
    android:textStyle="italic"
    android:textAllCaps="true"/>
</LinearLayout>

```

Main Activity.Java

```

package com.cmrit.exampleintent;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    Button phone, sms, website;
    Intent i = new Intent();
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        phone = (Button)findViewById(R.id.b1);
        sms = (Button) findViewById(R.id.b2);
        website = (Button) findViewById(R.id.b3);
        phone.setOnClickListener(new View.OnClickListener()
        {
            public void onClick(View view) {

```

```

        i.setAction(Intent.ACTION_DIAL);
        i.setData(Uri.parse("tel:1234567890"));
        startActivity(i);
    }
});
sms.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        i.setAction(Intent.ACTION_VIEW);
        i.setData(Uri.parse("sms:1234567890"));
        startActivity(i);
    }
});
website.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        i.setAction(Intent.ACTION_VIEW);
        i.setData(Uri.parse("https://www.cmrithyderabad.edu.in/"));
        startActivity(i);
    }
});
}
}
}

```

Develop mobile apps that insert some notifications into Notification areas and whenever a notification is inserted, it should show a toast with details of the notification.

activity_main.xml

```

<?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:gravity="center"
    tools:context=".MainActivity">
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

```

```
        android:text="Show Custom Toast"
        android:id="@+id/btnToast"/>
</LinearLayout>
```

custom toast layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    android:id="@+id/viewContainer"
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:gravity="center"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <ImageView
        android:layout_width="90dp"
        android:layout_height="103dp"
        android:src="@drawable/baseline_cloud_done_24"/>
    <TextView
        android:id="@+id/txtMsg"
        android:layout_width="match_parent"
        android:layout_height="58dp"
        android:layout_marginLeft="11dp"
        android:text="Toast Message "
        android:textSize="20dp"
        android:textStyle="bold" />
</LinearLayout>
```

MainActivity.java

```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Gravity;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity
```

```

{
    Button btnToast;

    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btnToast=findViewById(R.id.btnToast);
        btnToast.setOnClickListener(new View.OnClickListener()
        {
            public void onClick(View v)
            {
                Toast toast = new Toast(getApplicationContext());

                View view = getLayoutInflater().inflate(R.layout.custom_toast_layout, (ViewGroup)
                findViewById((R.id.viewContainer)));
                toast.setView(view);
                TextView txtMsg=view.findViewById(R.id.txtMsg);
                txtMsg.setText("Message Sent Successfully");
                toast.setDuration(Toast.LENGTH_LONG);
                toast.show();
                toast.setGravity(Gravity.TOP | Gravity.END, 0,0);
            }
        });
    }
}

```

**Aim: 4: Develop mobile apps with register screen when the user submits registration details
validate and register user.**

AndroidManifest.xml

```

</activity>

<activity android:name="com.cmrit.loginapplication.RegisterSuccessActivity"/>

</application>

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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">

<TextView

android:layout_width="129dp"

android:layout_height="45dp"

android:layout_alignParentEnd="true"

android:layout_alignParentRight="true"

android:layout_alignParentBottom="true"

android:layout_marginEnd="168dp"

android:layout_marginRight="168dp"

android:layout_marginBottom="596dp"

android:text="Sign Up"

android:textSize="24sp"

android:textStyle="bold"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="parent" />

<EditText

android:id="@+id/SignUp_email"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:minWidth="48dp"

android:minHeight="48dp"

android:layout_alignParentEnd="true"

android:layout_alignParentRight="true"

android:layout_alignParentBottom="true"

android:layout_marginEnd="114dp"

android:layout_marginRight="114dp"

android:layout_marginBottom="464dp"

android:ems="10"

android:hint="EmailId"

android:inputType="textPersonName" />
```

```
<Button
android:id="@+id/signUpBtn"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="168dp"
android:layout_marginRight="168dp"
android:layout_marginBottom="245dp"
android:text="Sign Up" />
```

```
<EditText
android:id="@+id/SignUp_Password"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:minWidth="48dp"
android:minHeight="48dp"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="113dp"
android:layout_marginRight="113dp"
android:layout_marginBottom="385dp"
android:height="48dp"
android:ems="10"
android:hint="Password"
android:inputType="textPassword" />
</RelativeLayout>
```

activity_registersuccess.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayoutxmlns: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=".RegisterSuccessActivity">
<TextView
    android:id="@+id/textView"
    android:layout_width="match_parent"
    android:layout_height="121dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="-11dp"
    android:layout_marginRight="-11dp"
    android:layout_marginBottom="322dp"
    android:text="Congratulations!! you are Successfully Registered."
    android:textSize="36sp"
    android:textStyle="bold" />
<Button
    android:id="@+id/loginBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="168dp"
    android:layout_marginRight="168dp"
    android:layout_marginBottom="245dp"
    android:text="Login" />
</RelativeLayout>
```

MainActivity.java

```
package com.cmrit.loginapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
```

```
import android.os.Bundle;

import android.util.Patterns;

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 {

    EditTextemail_Sign, password_Sign;

    Button signUp_btn;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

email_Sign=(EditText)findViewById(R.id.SignUp_email);

password_Sign=(EditText)findViewById(R.id.SignUp_Password);

signUp_btn =(Button)findViewById(R.id.signUpBtn);

signUp_btn.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        String email = email_Sign.getText().toString();

        String password = password_Sign.getText().toString();

        if(!isValidEmail(email)){

Toast.makeText(MainActivity.this, "Enter valid Email address !", Toast.LENGTH_SHORT).show();

            return;

        }

        if(!isValidPassword(password)) {

Toast.makeText(MainActivity.this,"Password doesn't match rules",Toast.LENGTH_SHORT).show();

            return;

        }

        Intent intent = new Intent(MainActivity.this, RegisterSuccessActivity.class);

intent.putExtra("email",email);

intent.putExtra("password",password);

startActivity(intent);
```

```

    }
    });
}

Pattern lowerCase= Pattern.compile("^.*[a-z].*$");
Pattern upperCase=Pattern.compile("^.*[A-Z].*$");
Pattern number = Pattern.compile("^.*[0-9].*$");
Pattern special_Chara = Pattern.compile("^.*[^a-zA-Z0-9].*$");

private Boolean isValidEmail(String email){
    if (!email.isEmpty() &&Patterns.EMAIL_ADDRESS.matcher(email).matches()) {
        return true;
    } else {
        return false;
    }
}

private Boolean isValidPassword(String password){
    if(password.length()<8) {
        return false;
    }
    if(!lowerCase.matcher(password).matches()) {
        return false;
    }
    if(!upperCase.matcher(password).matches()) {
        return false;
    }
    if(!number.matcher(password).matches()) {
        return false;
    }
    if(!special_Chara.matcher(password).matches()) {
        return false;
    }
    return true;
}
}

```

```

package com.cmrit.loginapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class RegisterSuccessActivity extends AppCompatActivity {

    Button login_Btn;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_registersuccess);

    }

}

```

WEEK-5

Develop mobile apps with login and welcome screens, When the user submits a username and password validate and verify user details on success navigate to welcome screen.

Activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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">
    <TextView
        android:layout_width="129dp"
        android:layout_height="45dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="168dp"
        android:layout_marginRight="168dp"
        android:layout_marginBottom="596dp"
        android:text="Sign Up"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <EditText
        android:id="@+id/SignUp_email"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:minWidth="48dp"
        android:minHeight="48dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentBottom="true"

```

```

        android:layout_marginEnd="114dp"
        android:layout_marginRight="114dp"
        android:layout_marginBottom="464dp"
        android:ems="10"
        android:hint="EmailId"
        android:inputType="textPersonName" />

```

```

<EditText
    android:id="@+id/SignUp_Password"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:minWidth="48dp"
    android:minHeight="48dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="113dp"
    android:layout_marginRight="113dp"
    android:layout_marginBottom="385dp"
    android:height="48dp"
    android:ems="10"
    android:hint="Password"
    android:inputType="textPassword" />
<Button
    android:id="@+id/signUpBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="168dp"
    android:layout_marginRight="168dp"
    android:layout_marginBottom="245dp"
    android:text="Sign Up" />

```

```

</RelativeLayout>

```

Activity_login.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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=".loginActivity">

    <TextView
        android:id="@+id/loginTextView"
        android:layout_width="225dp"
        android:layout_height="45dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="113dp"
        android:layout_marginRight="113dp"
        android:layout_marginBottom="544dp"
        android:text="Login"
        android:textSize="30sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        tools:layout_editor_absoluteX="143dp" />

    <EditText
        android:id="@+id/passEditText"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:minWidth="48dp"
        android:minHeight="48dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="124dp"
        android:layout_marginRight="124dp"
        android:layout_marginBottom="380dp"
        android:ems="10"
        android:hint="password"
        android:inputType="textPassword" />

```

```

<EditText
    android:id="@+id/EmailEditText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:minWidth="48dp"
    android:minHeight="48dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="127dp"
    android:layout_marginRight="127dp"
    android:layout_marginBottom="455dp"
    android:ems="10"
    android:hint="Email ID"
    android:inputType="textPersonName" />

```

```

<Button
    android:id="@+id/loginBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="218dp"
    android:layout_marginRight="218dp"
    android:layout_marginBottom="263dp"
    android:text="Login" />

```

```

</RelativeLayout>

```

Activity_registersuccess.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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=".RegisterSuccessActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="121dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="-11dp"
        android:layout_marginRight="-11dp"
        android:layout_marginBottom="322dp"
        android:text="Congratulations!! you are Successfully Registered."
        android:textSize="36sp"
    >

```

```
        android:textStyle="bold" />
```

```
<Button
    android:id="@+id/loginBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="168dp"
    android:layout_marginRight="168dp"
    android:layout_marginBottom="245dp"
    android:text="Login" />
```

```
</RelativeLayout>
```

Activity_welcome.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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=".welcomeActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="121dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="-11dp"
        android:layout_marginRight="-11dp"
        android:layout_marginBottom="322dp"
        android:text="WELCOME TO CMRIT"
        android:textSize="36sp"
        android:textStyle="bold" />

</RelativeLayout>
```

MainActivity.java

```
package com.cmrit.lab5;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
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;
import android.util.Patterns;

public class MainActivity extends AppCompatActivity {
    EditText email_Sign, password_Sign;
    Button signUp_btn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        email_Sign=(EditText) findViewById(R.id.SignUp_email);
        password_Sign=(EditText) findViewById(R.id.SignUp_Password);
        signUp_btn =(Button) findViewById(R.id.signUpBtn);
        signUp_btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String email = email_Sign.getText().toString();
```

```
String password = password_Sign.getText().toString();
```

```
        if(!isValidPassword(password)) {
            Toast.makeText(MainActivity.this, "Password doesn't match
rules", Toast.LENGTH_SHORT).show();
            return;
        }
        Intent intent = new Intent(MainActivity.this, RegisterSuccessActivity.class);
        intent.putExtra("email", email);
        intent.putExtra("password", password);
        startActivity(intent);
    }
});
}
Pattern lowerCase= Pattern.compile("^[a-z].*$");
Pattern upperCase=Pattern.compile("^[A-Z].*$");
Pattern number = Pattern.compile("^[0-9].*$");
Pattern special_Chara = Pattern.compile("^[^a-zA-Z0-9].*$");
private Boolean isValidEmail (String email){
    if (!email.isEmpty() && Patterns.EMAIL_ADDRESS.matcher(email).matches()) {
        return true;
    } else {
        return false;
    }
}
private Boolean isValidPassword(String password){
    if(password.length()<8) {
        return false;
    }
    if(!lowerCase.matcher(password).matches()) {
        return false;
    }

    if(!upperCase.matcher(password).matches()) {
        return false;
    }
    if(!number.matcher(password).matches()) {
        return false;
    }
    if(!special_Chara.matcher(password).matches()) {
        return false;
    }
    return true;
}
}
```

RegisterSuccessActivity.java

```
package com.cmrit.lab5;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class RegisterSuccessActivity extends AppCompatActivity {
    Button login_Btn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_registersuccess);
        login_Btn =(Button)findViewById(R.id.loginBtn);
        String regEmail = getIntent().getStringExtra("email");
        String regPassword= getIntent().getStringExtra("password");

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



```

Intent intent = new Intent(RegisterSuccessActivity.this, loginActivity.class);
intent.putExtra("email", regEmail);
intent.putExtra("password", regPassword);
startActivity(intent);
}
});
}
}

```

LoginActivity.java

```

package com.cmrit.lab5;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class loginActivity extends AppCompatActivity {
    EditText emailEditText,passwordEditText;
    Button login_btn;
    int counter=2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_login);
        emailEditText=(EditText) findViewById(R.id.EmaileditText);
        passwordEditText=(EditText) findViewById(R.id.passEditText);
        login_btn=(Button) findViewById(R.id.loginBtn);
        String registeredEmail = getIntent().getStringExtra("email");
        String registeredPassword= getIntent().getStringExtra("password");
        login_btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String email = emailEditText.getText().toString();
                String password = passwordEditText.getText().toString();
                if(registeredEmail.equals(email) && registeredPassword.equals(password))
                {
                    Intent intent= new Intent(loginActivity.this, welcomeActivity.class);
                    startActivity(intent);
                }
                else {
                    Toast.makeText(loginActivity.this,"Invalid
Credentials",Toast.LENGTH_SHORT).show();
                    counter--;
                    if(counter==0){
                        Toast.makeText(getApplicationContext(),"failed to login
attempts",Toast.LENGTH_SHORT).show();
                        login_btn.setEnabled(false);
                    }
                }
            }
        });
    }
}

```

WelcomeActivity.java

```

package com.cmrit.lab5;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
public class welcomeActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_welcome);}}

```