Bahria University,

Karachi Campus

A logo with text on it

Description automatically generated

LAB EXPERIMENT NO.

**8**

LIST OF TASKS

|  |  |
| --- | --- |
| TASK NO | OBJECTIVE |
| **1** | Implement Login Functionality with Communication Between Activities |
| 2 | **Implement the logic to update the having hours minutes and seconds as integer variable** |
| 3 | Implement the logic to ask user to save his content |

Submitted On:

13 June2024

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(Date: DD/MM/YY)

**Task 1:**

Implement Login Functionality with Communication Between Activities

**Main.XML code**

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:id="@+id/errorMessage"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="#FF0000"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="30dp"

android:visibility="gone"

android:text="Error: Invalid username or password" />

android:inputType="textPassword" />

<Button

android:id="@+id/loginButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Login"

android:layout\_marginTop="20dp"

android:layout\_below="@id/passwordEditText"

android:layout\_centerHorizontal="true" />

</RelativeLayout>

**Main.Java code**

package com.example.assignment2;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private EditText usernameEditText;

private EditText passwordEditText;

private TextView errorMessage;

private Button loginButton;

private final String VALID\_USERNAME = "Ali";

private final String VALID\_PASSWORD = "password";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

usernameEditText = findViewById(R.id.usernameEditText);

passwordEditText = findViewById(R.id.passwordEditText);

errorMessage = findViewById(R.id.errorMessage);

loginButton = findViewById(R.id.loginButton);

loginButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String username = usernameEditText.getText().toString();

String password = passwordEditText.getText().toString(); return true;

}

}

**Welcome.XML code**

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".WelcomeActivity">

<TextView

android:id="@+id/welcomeMessage"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="24sp"

android:layout\_centerInParent="true"

android:text="Welcome!" />

</RelativeLayout>

**WELCOME.Java code**

package com.example.assignment2;

import android.os.Bundle;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class WelcomeActivity extends AppCompatActivity {

private TextView welcomeMessage;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_welcome);

welcomeMessage = findViewById(R.id.welcomeMessage);

String username = getIntent().getStringExtra("username");

welcomeMessage.setText("Welcome, " + username + "!");

}

}

**Task 2:**

**Implement the logic to update the having hours minutes and seconds as integer variable XML code**

**Main.XML code**

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:id="@+id/timeTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="00:00:00"

android:textSize="30sp"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="100dp"/>

<RadioButton

android:id="@+id/updateMinutes"

android:layout\_height="wrap\_content"

android:text="Update"

android:layout\_below="@id/timeFieldGroup"

android:layout\_marginTop="30dp"

android:layout\_centerHorizontal="true"/>

</RelativeLayout>

**MainJava code**

package com.example.lab;  
  
public class MainActivity extends AppCompatActivity {

private TextView timeTextView;

private RadioGroup timeFieldGroup;

} else if (selectedId == updateMinutes.getId()) {

openUpdateTimeActivity(REQUEST\_CODE\_UPDATE\_MINUTES);

} else if (selectedId == updateSeconds.getId()) {

openUpdateTimeActivity(REQUEST\_CODE\_UPDATE\_SECONDS);

}

}

});

seconds = newValue % 60;

}

updateTimeTextView();

}

}

private void updateTimeTextView() {

String timeString = String.format("%02d:%02d:%02d", hours, minutes, seconds);

timeTextView.setText(timeString);

}

}

**Updatetime.XML code**

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".UpdateTimeActivity">

<EditText

android:id="@+id/timeInput"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:hint="Enter time value"

android:inputType="number"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="100dp"/>

<Button

android:id="@+id/updateTimeButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Update"

android:layout\_below="@id/timeInput"

android:layout\_marginTop="30dp"

android:layout\_centerHorizontal="true"/>

</RelativeLayout>

**Updatetime.Java code**

package com.example.assignment2;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

updateTimeButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

int newValue = Integer.parseInt(timeInput.getText().toString());

Intent resultIntent = new Intent();

resultIntent.putExtra("newValue", newValue);

resultIntent.putExtra("timeField", timeFieldToUpdate);

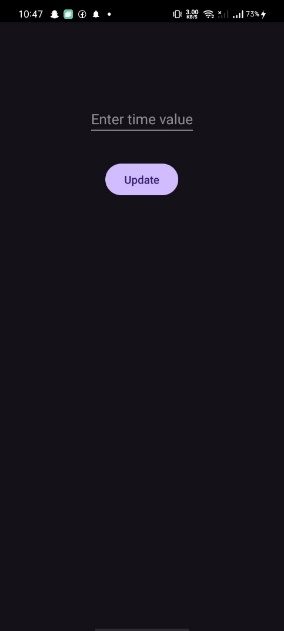
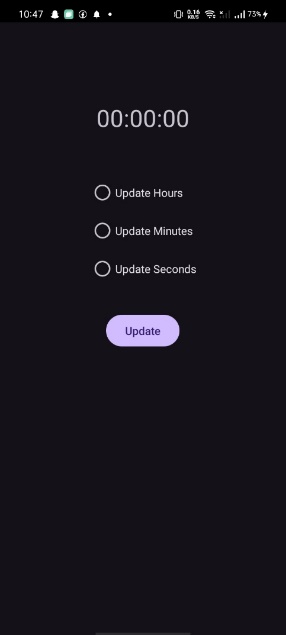
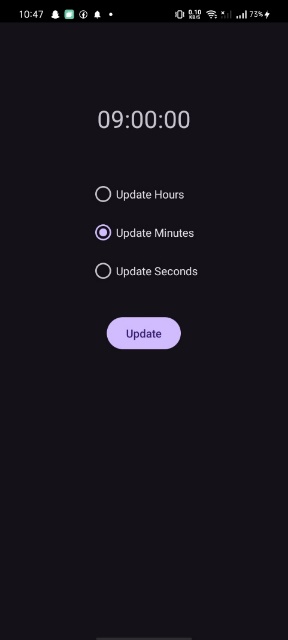
setResult(RESULT\_OK, resultIntent);

finish();

}

})}}

**OUTPUT:**



**Task 3**

**Implement the logic to ask user to save his content**

**MainXML code**

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:id="@+id/mainTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Welcome!"

android:textSize="24sp"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="100dp" />

<Button

android:id="@+id/askButton"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Ask Question"

android:layout\_below="@id/mainTextView"

android:layout\_marginTop="20dp"

android:layout\_centerHorizontal="true" />

</RelativeLayout>

**Main.Java code**

package com.example.assignment2;

public class MainActivity extends AppCompatActivity {

private static final int REQUEST\_CODE = 1;

private TextView mainTextView;

private Button askButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

if (resultCode == RESULT\_OK) {

String response = data.getStringExtra("response");

mainTextView.setText(response);

} else if (resultCode == RESULT\_CANCELED) {

mainTextView.setText("User ignored the message");

}}}}

**ASK.XML code**

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".AskActivity">

<TextView

android:id="@+id/questionTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Do you want to save your name:"

android:textSize="20sp"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="100dp" />

<EditText

android:id="@+id/responseEditText"

android:layout\_width="match\_parent"

android:lay

android:layout\_height="wrap\_content"

android:text="CANCEL"

android:layout\_below="@id/responseEditText"

android:layout\_marginTop="20dp"

android:layout\_marginRight="20dp"

android:layout\_alignParentRight="true" />

</RelativeLayout>

**ASK.Java code**

package com.example.assignment2;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class AskActivity extends AppCompatActivity {

private EditText responseEditText;

private Button yesButton, noButton, cancelButton;

finish();

}

});

}

private void returnResponse() {

String response = responseEditText.getText().toString();

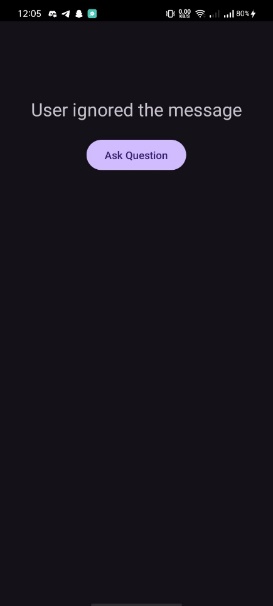
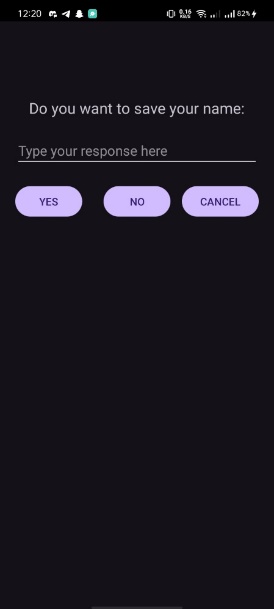
Intent resultIntent = new Intent();

resultIntent.putExtra("response", response);

setResult(RESULT\_OK, resultIntent);

finish();}}

**OUTPUT:**

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