

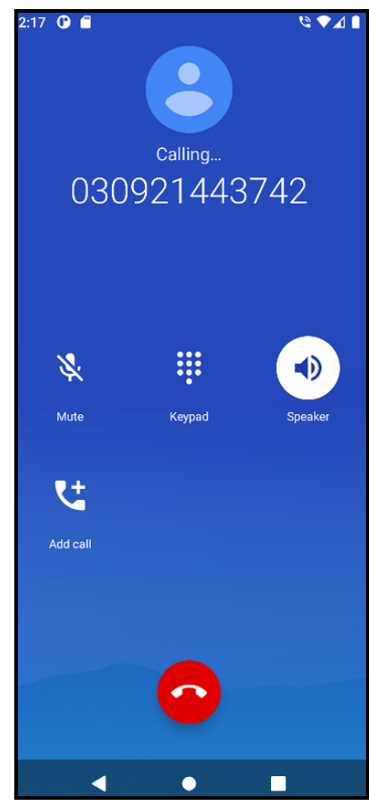
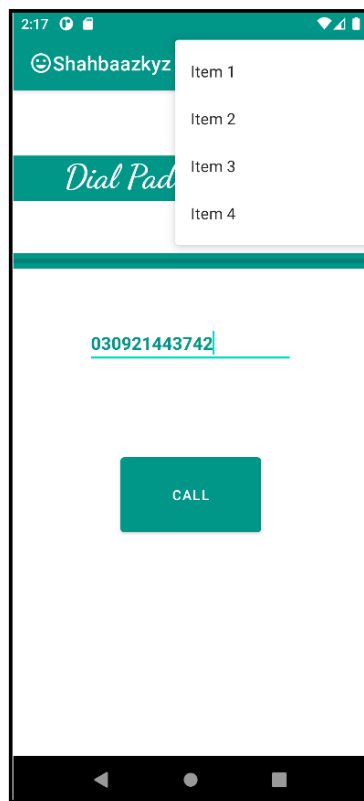
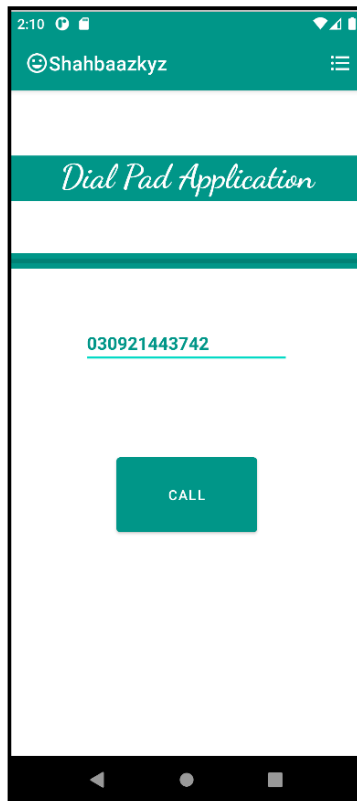


## BENAZIR BHUTTO SHAHEED UNIVERSITY LYARI

### Lab Task 3.

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Subject:	Mobile Application Development

## Task 3: Menu and Calling Application



## Source Code (MainActivity.java):

```
package com.example.labtask3;

import ...

public class MainActivity extends AppCompatActivity {

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

        Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar); // get the reference of Toolbar
        setSupportActionBar(toolbar);

        EditText enteredNumber = findViewById(R.id.number);
        Button CallButton = findViewById(R.id.call);

        CallButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String dialedNumber = enteredNumber.getText().toString();
                if (dialedNumber.trim().length() > 10) {
                    String dial = "tel:" + dialedNumber;
                    startActivity(new Intent(Intent.ACTION_CALL, Uri.parse(dial)));
                } else {
                    Toast.makeText(context: MainActivity.this, text: "Enter Correct number!", Toast.LENGTH_SHORT).show();
                }
            }
        });
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.menu_item, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        int itemId = item.getItemId();

        if (itemId == R.id.item1)
        {
            Toast.makeText(context: this, text: "Clicked on Item 1", Toast.LENGTH_SHORT).show();
        }

        else if (itemId == R.id.item2)
        {
            Toast.makeText(context: this, text: "Clicked on Item 2", Toast.LENGTH_SHORT).show();
        }
        else if (itemId == R.id.item3)
        {
            Toast.makeText(context: this, text: "Clicked on Item 3", Toast.LENGTH_SHORT).show();
        }
        else if (itemId == R.id.item4)
        {
            Toast.makeText(context: this, text: "Clicked on Item 4", Toast.LENGTH_SHORT).show();
        }
        return true;
    }
}
```

## Source Code (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">

    <include
        android:id="@+id/toolbar"
        layout="@layout/toolbar"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="31dp" />

    <EditText
        android:id="@+id/number"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Enter No. to call"
        android:inputType="phone"
        android:textColor="@color/purple_500"
        android:textColorHint="@color/purple_500"
        android:textStyle="normal|bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.422" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="400dp"
        android:layout_height="46dp"
        android:background="@color/purple_500"
        android:fontFamily="cursive"
        android:lineSpacingExtra="16sp"
        android:rotationX="2"
        android:text="Dial Pad Application"
        android:textAlignment="center"
        android:textColor="@color/white"
        android:textSize="34sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/number"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/call"
        android:layout_width="143dp"
        android:layout_height="88dp"
        android:text="Call"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/number"
        app:layout_constraintVertical_bias="0.282" />

    <ProgressBar
        android:id="@+id/progressBar2"
        style="?android:attr/progressBarStyleHorizontal"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:background="@color/purple_500"
        app:layout_constraintBottom_toTopOf="@+id/number"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView2" />

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

## Source Code (Toolbar.xml):

```
<?xml version="1.0" encoding="utf-8"?>
<com.google.android.material.appbar.MaterialToolbar xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:elevation="4dp"
    android:background="@color/purple_500"
    android:theme="@style/ThemeOverlay.AppCompat.Dark"
    app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
    app:logo="@drawable/ic_logo"
    app:logoDescription="Shahbaazkyz"

    >

</com.google.android.material.appbar.MaterialToolbar>
```

## Source Code (Menu-item.xml):

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">

    <item app:showAsAction="always"
        android:icon="@drawable/ic_baseline_menu_24"
        android:title="">

        <menu>
            <item
                android:id="@+id/item1"
                android:title="Item 1"
                app:showAsAction="never" />
            <item
                android:id="@+id/item2"
                android:title="Item 2"
                app:showAsAction="never" />
            <item
                android:id="@+id/item3"
                android:title="Item 3"
                app:showAsAction="never" />
            <item
                android:id="@+id/item4"
                android:title="Item 4"
                app:showAsAction="never" />
        </menu>
    </item>
</menu>
```