



STATE UNIVERSITY OF ZANZIBAR
SCHOOL OF BUSINESS

MOBILE APPLICATION DEVELOPMENT
(ANDROID)

ANDROID LAB EXAM

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Question no: 1

Mainactivity.java

```
package com.example.lab_exam;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements
AdapterView.OnItemClickListener {
    private Button button;
    EditText number, other;
    SharedPreferences pref;
    TextView frstView, secndView, thrdView;

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

        number = (EditText) findViewById(R.id.frsteditText);
        other = (EditText) findViewById(R.id.scndeditText);
        button = (Button) findViewById(R.id.button);

        pref = getSharedPreferences("unit", MODE_PRIVATE);

        Spinner spinner = findViewById(R.id.spinner);
        ArrayAdapter<CharSequence> adapter =
ArrayAdapter.createFromResource(this, R.array.units,
android.R.layout.simple_spinner_item);

        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        spinner.setAdapter(adapter);
        spinner.setOnItemClickListener(this);

        button= (Button) findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                openMainActivity2();
            }
        });
        String number1 = number.getText().toString();
        String other1 = other.getText().toString();
    }
}
```

```

    });
}
public void openMainActivity2() {
    Intent intent = new Intent(this, MainActivity2.class);
    startActivity(intent);
}

@Override
public void onItemClick(AdapterView<?> parent, View view, int position, long
id) {
    String text = parent.getItemAtPosition(position).toString();
    Toast.makeText(parent.getContext(),text, Toast.LENGTH_SHORT).show();
}

@Override
public void onNothingSelected(AdapterView<?> parent) {
}
}

```

Mainactivity2.java

```

package com.example.lab_exam;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

    SharedPreferences prf;
    Intent intent;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);

        TextView textView = (TextView)findViewById(R.id.textView);
        Button button1 = (Button)findViewById(R.id.button1);
        prf = getSharedPreferences("unit",MODE_PRIVATE);
        intent = new Intent(MainActivity2.this,MainActivity.class);

        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                SharedPreferences.Editor editor = prf.edit();
                editor.clear();
            }
        });
    }
}

```

```

        editor.commit();
        startActivity(intent);
    }
});
}
}

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="match_parent"
        android:id="@+id/frstView"
        android:layout_height="wrap_content"
        android:text="KM" />

    <EditText
        android:id="@+id/frsteditText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="enter Km" />

    <TextView
        android:id="@+id/secndView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="OTHER"/>

    <EditText
        android:id="@+id/scndeditText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="enter other" />

    <TextView
        android:id="@+id/thrdView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Measurement" />

```

```

<Spinner
    android:id="@+id/spinner"
    android:layout_width="165dp"
    android:layout_height="wrap_content" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="CONVERT" />

</LinearLayout>

```

Activity_main2

```

<?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=".MainActivity2">

    <TextView
        android:layout_width="match_parent"
        android:id="@+id/textView"
        android:layout_height="wrap_content"
        android:text="Your Measurement is : " />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="250dp"
        android:text="Log out" />

</LinearLayout>



```








String.xml

```

<resources>
    <string name="app_name">Lab_exam</string>
    <string-array name="units">
        <item>KM-Miles</item>
        <item>KM-CM</item>
        <item>KM-M</item>
    </string-array>
</resources>

```

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Lab_exam

KM

enter Km

OTHER

enter other

Measurement

KM-Miles

▼

CONVERT