

Q1. Write a program to display 5 students basic information in a table form using Table layout

XML code:

```
<?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"
    android:stretchColumns="0,1,2"
    tools:context=".MainActivity">
<TableRow>
    <TextView
        android:id="@+id/textView18"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Roll No."
        android:textSize="25dp"
        android:textColor="#F80903" />
    <TextView
        android:id="@+id/textView15"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Student Name"
        android:textSize="25dp"
        android:textColor="#F80903" />
    <TextView
        android:id="@+id/textView10"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Department"
        android:textSize="25dp"
        android:textColor="#F80903" />
</TableRow>
<TableRow>
    <TextView
        android:id="@+id/textView7"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="3301"
        android:textColor="#F80903"
        android:textSize="20dp" />
    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Vivek"
        android:textSize="20dp"
        android:textColor="#F80903" />
```

```

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Computer"
    android:textSize="20dp"
    android:textColor="#F80903" />
</TableRow>
<TableRow>
    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="3302"
        android:textSize="20dp"
        android:textColor="#F80903" />
    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Mousami"
        android:textSize="20dp"
        android:textColor="#F80903" />
    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Computer"
        android:textSize="20dp"
        android:textColor="#F80903" />
</TableRow>
<TableRow>
    <TextView
        android:id="@+id/textView6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="3303"
        android:textSize="20dp"
        android:textColor="#F80903" />
    <TextView
        android:id="@+id/textView8"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Disha"
        android:textSize="20dp"
        android:textColor="#F80903" />
    <TextView
        android:id="@+id/textView9"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Computer"
        android:textSize="20dp"

```

```

        android:textColor="#F80903" />
</TableRow>
<TableRow>
    <TextView
        android:id="@+id/textView11"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="3304"
        android:textSize="20dp"
        android:textColor="#F80903" />
    <TextView
        android:id="@+id/textView12"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Sanjana"
        android:textColor="#F80903"
        android:textSize="20dp" />
    <TextView
        android:id="@+id/textView13"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Computer"
        android:textSize="20dp"
        android:textColor="#F80903" />
</TableRow>
</TableLayout>

```

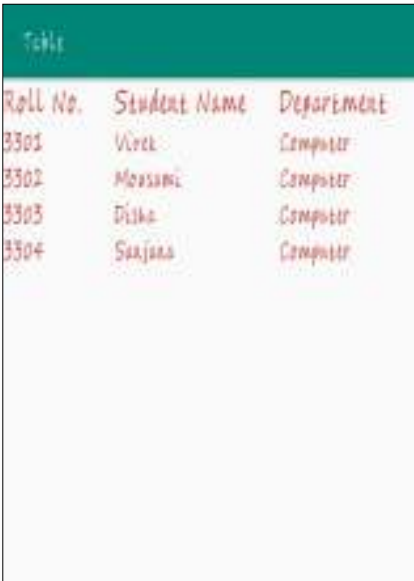
JAVA code:

```

package com.example.table;
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);
    }
}

```

Output:



The screenshot shows an Android application interface. At the top, there is a green header bar with the word "Table" in white text. Below the header is a table with three columns: "Roll No.", "Student Name", and "Department". The table contains four rows of data, all displayed in red text. The data is as follows:

Roll No.	Student Name	Department
3301	Virel	Computer
3302	Mousami	Computer
3303	Disha	Computer
3304	Saajana	Computer

Q2. Write a program to display all the data types in object oriented programming using Frame layout

XML code:

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout 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">
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="integer" />
    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="character"
        android:layout_gravity="top|right"/>
    <Button
        android:id="@+id/button3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="float"
        android:layout_gravity="top|center_horizontal"/>
    <Button
        android:id="@+id/button4"
        android:layout_width="wrap_content"
```

```

        android:layout_height="wrap_content"
        android:text="double"
        android:layout_gravity="left|center_vertical"/>
<Button
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="boolean"
    android:layout_gravity="right|center_vertical"/>
<Button
    android:id="@+id/button6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="string"
    android:layout_gravity="center"/>
<Button
    android:id="@+id/button7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="long"
    android:layout_gravity="left|bottom"/>
<Button
    android:id="@+id/button8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="shortInt"
    android:layout_gravity="right|bottom"/>
<Button
    android:id="@+id/button9"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="longInt"
    android:layout_gravity="center|bottom"/>
</FrameLayout>

```

JAVA code:

```

package com.example.frame;
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);
    }
}

```

Output:

frame

INTEGER

DOUBLE

LONG

FLOAT

STRING

LONGINT

CHARACTER

BOOLEAN

SHORTINT