## **Practical No: 6**

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Roll No: 66

1.write a program to display 10 student basic information in a table form using table Layout.

```
Activity_main.xml(code for layout):-
<?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">
  <TableLayout
    android:layout width="wrap content"
    android:layout height="wrap content"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5">
    <TableRow
      android:layout width="match parent"
      android:layout_height="match_parent" >
      <TextView
        android:id="@+id/textView30"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text=""/>
      <TextView
        android:id="@+id/textView29"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:text=" " />
      <TextView
        android:id="@+id/textView28"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text=" " />
      <TextView
```

android:id="@+id/textView27"

```
android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Student Information" />
</TableRow>
<TableRow
  android:layout width="wrap content"
  android:layout_height="100dp">
  <TextView
    android:id="@+id/textView23"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text=" " />
  <TextView
    android:id="@+id/textView5"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Sr no." />
  <TextView
    android:id="@+id/textView3"
    android:layout width="wrap content"
    android:layout height="match parent"
    android:text=" " />
  <TextView
    android:id="@+id/textView4"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Name" />
  <TextView
    android:id="@+id/textView6"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=" " />
  <TextView
    android:id="@+id/textView2"
    android:layout_width="167dp"
    android:layout height="match parent"
    android:text="marks" />
</TableRow>
<TableRow
  android:layout width="match parent"
  android:layout_height="match_parent" >
  <TextView
    android:id="@+id/textView24"
    android:layout width="wrap content"
```

```
android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView11"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="1." />
  <TextView
    android:id="@+id/textView10"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=" " />
  <TextView
    android:id="@+id/textView9"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Prince Maurya" />
  <TextView
    android:id="@+id/textView8"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView7"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="84.67%" />
</TableRow>
<TableRow
  android:layout width="match parent"
  android:layout height="wrap content">
  <TextView
    android:id="@+id/textView25"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView16"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="2."/>
  <TextView
    android:id="@+id/textView15"
    android:layout width="wrap content"
```

```
android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView14"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="Hemil" />
  <TextView
    android:id="@+id/textView13"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView12"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="80%" />
</TableRow>
<TableRow
  android:layout width="match parent"
  android:layout height="44dp">
  <TextView
    android:id="@+id/textView26"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView17"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="3."/>
  <TextView
    android:id="@+id/textView18"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView19"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="Rohit" />
  <TextView
    android:id="@+id/textView20"
    android:layout width="wrap content"
```

```
android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView21"
    android:layout_width="wrap_content"
    android:layout height="match parent"
    android:text="78%" />
</TableRow>
<TableRow
  android:layout width="match parent"
  android:layout height="match parent" >
  <TextView
    android:id="@+id/textView"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView22"
    android:layout width="wrap content"
    android:layout height="match parent"
    android:text="4." />
  <TextView
    android:id="@+id/textView31"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView32"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Harsh" />
  <TextView
    android:id="@+id/textView33"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView34"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="86%" />
</TableRow>
<TableRow
  android:layout width="match parent"
```

```
android:layout height="match parent">
  <TextView
    android:id="@+id/textView35"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView36"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="5." />
  <TextView
    android:id="@+id/textView37"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView38"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Krishna" />
  <TextView
    android:id="@+id/textView39"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView40"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="86%" />
</TableRow>
<TableRow
  android:layout width="match parent"
  android:layout_height="match_parent" >
  <TextView
    android:id="@+id/textView41"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView42"
    android:layout width="wrap content"
    android:layout height="wrap content"
```

```
android:text="6."/>
  <TextView
    android:id="@+id/textView43"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView44"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Raj" />
  <TextView
    android:id="@+id/textView45"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView46"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="81.11%" />
</TableRow>
<TableRow
  android:layout width="match parent"
  android:layout_height="match_parent" >
  <TextView
    android:id="@+id/textView47"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView48"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="7."/>
  <TextView
    android:id="@+id/textView49"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView50"
    android:layout width="wrap content"
    android:layout height="wrap content"
```

```
android:text="Jayesh" />
  <TextView
    android:id="@+id/textView51"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView52"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="85%" />
</TableRow>
<TableRow
  android:layout_width="match_parent"
  android:layout height="match parent" >
  <TextView
    android:id="@+id/textView53"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView54"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="8."/>
  <TextView
    android:id="@+id/textView55"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView56"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="harsh v" />
  <TextView
    android:id="@+id/textView57"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text=""/>
  <TextView
    android:id="@+id/textView58"
    android:layout width="wrap content"
    android:layout height="wrap content"
```

```
android:text="89%" />
</TableRow>
<TableRow
  android:layout width="match parent"
  android:layout_height="match_parent" >
  <TextView
    android:id="@+id/textView59"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView60"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="9."/>
  <TextView
    android:id="@+id/textView61"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView62"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="sahil" />
  <TextView
    android:id="@+id/textView63"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text=""/>
  <TextView
    android:id="@+id/textView64"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="80%" />
</TableRow>
<TableRow
  android:layout width="match parent"
  android:layout_height="match_parent" >
  <TextView
    android:id="@+id/textView65"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text=""/>
```

```
<TextView
        android:id="@+id/textView66"
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:text="10."/>
      <TextView
        android:id="@+id/textView67"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text=""/>
      <TextView
        android:id="@+id/textView68"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Aaryan" />
      <TextView
        android:id="@+id/textView69"
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:text=""/>
      <TextView
        android:id="@+id/textView70"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:text="76%" />
    </TableRow>
  </TableLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java(code for functionality):-
package com.example.practical 6;
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:

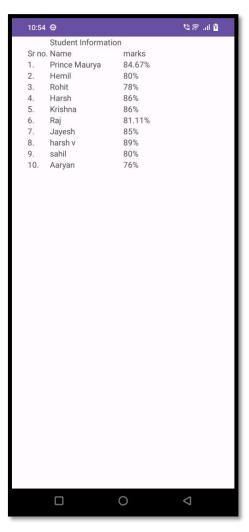


Fig: 6.1 display the 10 student information

## 2.write a program to display all the data types in object-oriented programming using frame layout.

## Activity\_main.xml(code for layout):-

```
<?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">
  <FrameLayout
    android:layout width="match parent"
    android:layout_height="match_parent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent" >
    <TextView
      android:id="@+id/textView4"
      android:layout width="131dp"
      android:layout height="262dp"
      android:layout_gravity="center|left"
      android:text="primitive:-
             1.int
             2.boolean
             3.float
             4.complex
             5.double
             6.long
             7.short
             8.byte
             9.character"
      android:textSize="20dp"
      />
    <TextView
      android:id="@+id/textView5"
      android:layout_width="130dp"
      android:layout_height="262dp"
      android:layout gravity="center"
      android:text="non primitive:-
```

```
1.strings
               2.array"
      android:textSize="20dp" />
  </FrameLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java(code for functionality):-
package com.example.practical 6;
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:
```

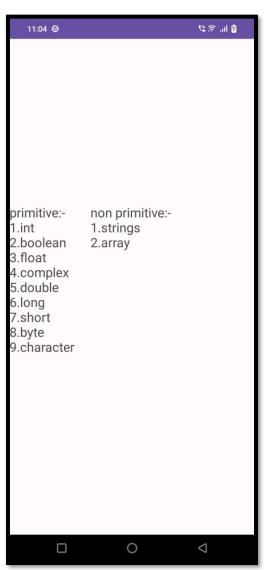


Fig: 4.3 display the data types in the object-oriented programming