10) Create an application with an activity having EditText and a button (with name "Send"). On clicking Send button, make use of implicit intent that uses a Send Action and let user select app from app chooser and navigate to that application.

```xml
<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">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="40dp"
        android:background="#1e88e5"
        android:text="parcelable"
        android:textAlignment="center"
        android:textColor="#FFFFFF"
        android:textSize="30sp"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="24dp"
        android:text="student_class_data"
        android:textAlignment="center"
        android:textColor="#FFFFFF"
        android:textSize="24sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView2" />

    <LinearLayout
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginTop="24dp"
        android:orientation="vertical"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="10dp"
            android:orientation="horizontal"
            android:paddingLeft="15dp"
```

```xml
                    android:paddingRight="15dp">

                    <TextView
                        android:id="@+id/textView3"
                        android:layout_width="0dp"
                        android:layout_height="wrap_content"
                        android:layout_weight="1"
                        android:text="name"
                        android:textColor="#090909"
                        android:textStyle="bold" />

                    <EditText
                        android:id="@+id/etName"
                        android:layout_width="wrap_content"
                        android:layout_height="wrap_content"
                        android:layout_weight="1"
                        android:backgroundTint="#FFEB3B"
                        android:ems="10"
                        android:hint="Name"
                        android:inputType="textPersonName"
                        android:textColor="#FC090909"

        tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck" />

            </LinearLayout>

            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="10dp"
                android:orientation="horizontal"
                android:paddingLeft="15dp"
                android:paddingRight="15dp">

                    <TextView
                        android:id="@+id/textView4"
                        android:layout_width="0dp"
                        android:layout_height="wrap_content"
                        android:layout_weight="1"
                        android:backgroundTint="#FFFFFF"
                        android:text="age"
                        android:textColor="#FFFFFF" />

                    <EditText
                        android:id="@+id/etAge"
                        android:layout_width="wrap_content"
                        android:layout_height="wrap_content"
                        android:layout_weight="1"
                        android:backgroundTint="#FFFFFF"
                        android:ems="10"
                        android:inputType="textPersonName"
                        android:textColor="#FFFFFF"

        tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck"
                        android:autofillHints="" />
            </LinearLayout>

            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="10dp"
```

```xml
            android:orientation="horizontal"
            android:paddingLeft="15dp"
            android:paddingRight="15dp">

            <TextView
                android:id="@+id/textView5"
                android:layout_width="0dp"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:backgroundTint="#FFFFFF"
                android:text="roll_no"
                android:textColor="#FFFFFF" />

            <EditText
                android:id="@+id/etRollNo"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:backgroundTint="#FFFFFF"
                android:ems="10"
                android:importantForAutofill="no"
                android:inputType="textPersonName"
                android:textColor="#FFFFFF"

    tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck" />
        </LinearLayout>

        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:layout_margin="10dp"
            android:orientation="horizontal"
            android:paddingLeft="15dp"
            android:paddingRight="15dp">

            <Button
                android:id="@+id/button"
                android:layout_width="0dp"
                android:layout_height="wrap_content"
                android:layout_marginTop="80dp"
                android:layout_weight="1"
                android:text="send_data"
                android:textSize="14sp" />
        </LinearLayout>

        <EditText
            android:id="@+id/etDOB"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:autofillHints=""
            android:backgroundTint="#FFFFFF"
            android:ems="10"
            android:inputType="textPersonName"
            android:textColor="#FFFFFF"
            tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck"
    />

    </LinearLayout>
```

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

```java
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.EditText;
import com.example.paracable method.databinding.ActivityMainBinding;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity
{
    private ActivityMainBinding binding;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        binding = ActivityMainBinding.inflate(getLayoutInflater());
        setContentView(binding.getRoot());

        ArrayList<EditText> etList = new ArrayList<>();
        etList.add(binding.etName);
        etList.add(binding.etAge);
        etList.add(binding.etRollNo);
        etList.add(binding.etDOB);

        binding.button.setOnClickListener(view ->
        {
            if(this.validate(etList))
            {
                Students student = new Students();
                student.setmName(binding.etName.getText().toString());

student.setmAge(Integer.parseInt(binding.etAge.getText().toString()));
                student.setmRollNo(binding.etRollNo.getText().toString());
                student.setmDOB(binding.etDOB.getText().toString());
                Intent in = new Intent(MainActivity.this,
MainActivity2.class);
                in.putExtra("data",student);
                startActivity(in);
            }
        });
    }

    private boolean validate(ArrayList<EditText> etList)
    {
        for(EditText et: etList)
        {
            if(!hasText(et,"Required")) return false;
        }
        return true;
    }

    private boolean hasText(EditText editText, String error_message)
    {
        String text = editText.getText().toString().trim();
```

```java
            editText.setError(null);
            if(text.length() == 0)
            {
                editText.setError(error_message);
                return false;
            }
            return true;
        }
}
```

```xml
<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=".MainActivity2">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:background="#1e88e5"
        android:text="parcelable"
        android:textAlignment="center"
        android:textColor="#FFFFFF"
        android:textSize="30sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.072" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="24dp"
        android:text="student class data"
        android:textAlignment="center"
        android:textColor="#FFFFFF"
        android:textSize="24sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView2" />

    <LinearLayout
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginTop="24dp"
        android:orientation="vertical"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
```

```xml
        app:layout_constraintTop_toBottomOf="@+id/textView"
        app:layout_constraintVertical_bias="0.0">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="10dp"
            android:orientation="horizontal"
            android:paddingLeft="15dp"
            android:paddingRight="15dp"
            android:weightSum="1">

            <TextView
                android:id="@+id/textView8"
                android:layout_width="0dp"
                android:layout_height="wrap_content"
                android:layout_weight="0.3"
                android:text="Name"
                android:textColor="#FFFFFF"
                android:textSize="16sp" />

            <TextView
                android:id="@+id/tvName"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="0.3"
                android:textColor="#FFFFFF"
                android:textSize="16sp" />
        </LinearLayout>

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="10dp"
            android:orientation="horizontal"
            android:paddingLeft="15dp"
            android:paddingRight="15dp"
            android:weightSum="1">

            <TextView
                android:id="@+id/textView10"
                android:layout_width="0dp"
                android:layout_height="wrap_content"
                android:layout_weight="0.3"
                android:text="Age"
                android:textColor="#FFFFFF"
                android:textSize="16sp" />

            <TextView
                android:id="@+id/tvAge"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="0.3"
                android:textColor="#FFFFFF"
                android:textSize="16sp" />
        </LinearLayout>

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="10dp"
```

```xml
        android:orientation="horizontal"
        android:paddingLeft="15dp"
        android:paddingRight="15dp"
        android:weightSum="1">

        <TextView
            android:id="@+id/textView12"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="0.3"
            android:text="Roll No"
            android:textColor="#FFFFFF"
            android:textSize="16sp" />

        <TextView
            android:id="@+id/tvRollNo"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="0.3"
            android:textColor="#FFFFFF"
            android:textSize="16sp" />
    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="10dp"
        android:orientation="horizontal"
        android:paddingLeft="15dp"
        android:paddingRight="15dp"
        android:weightSum="1">

        <TextView
            android:id="@+id/textView14"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="0.3"
            android:text="DOB"
            android:textColor="#FFFFFF"
            android:textSize="16sp" />

        <TextView
            android:id="@+id/tvDOB"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="0.3"
            android:textColor="#FFFFFF"
            android:textSize="16sp" />
    </LinearLayout>

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:orientation="horizontal">

        <TextView
            android:id="@+id/textView18"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="80dp"
```

```xml
                    android:layout_weight="1"
                    android:text="Data Received"
                    android:textColor="#FFD600"
                    android:textSize="20sp" />
            </LinearLayout>
        </LinearLayout>

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

// Second Java

```java
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class MainActivity2 extends AppCompatActivity
{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main2);
    }
}


public class Students implements Parcelable {

    private String mName;
    private int mAge;
    private String mRollNo;
    private String mDOB;

    public Students()
    {

    }

    protected Students(Parcel in) {
        mName = in.readString();
        mAge = in.readInt();
        mRollNo = in.readString();
        mDOB = in.readString();
    }

    public static final Creator<Students> CREATOR = new Creator<Students>()
{
        @Override
        public Students createFromParcel(Parcel in) {
            return new Students(in);
        }
        @Override
        public Students[] newArray(int size) {
            return new Students[size];
        }
    };

    @Override
    public int describeContents() {
        return 0;
```

```java
        }

        @Override
        public void writeToParcel(Parcel parcel, int i) {
            parcel.writeString(mName);
            parcel.writeInt(mAge);
            parcel.writeString(mRollNo);
            parcel.writeString(mDOB);
        }

        public String getmName() {
            return mName;
        }

        public void setmName(String mName) {
            this.mName = mName;
        }

        public int getmAge() {
            return mAge;
        }

        public void setmAge(int mAge) {
            this.mAge = mAge;
        }

        public String getmRollNo() {
            return mRollNo;
        }

        public void setmRollNo(String mRollNo) {
            this.mRollNo = mRollNo;
        }

        public String getmDOB() {
            return mDOB;
        }

        public void setmDOB(String mDOB) {
            this.mDOB = mDOB;
        }
    }
```

parcelable

name | Name

SEND_DATA