<u>10</u>) 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</pre>
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</pre>
        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</pre>
            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/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</pre>
            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/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">
            <But.ton
                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 File

```
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();
```

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

// Second XML

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

```
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</pre>
   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</pre>
   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/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</pre>
   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</pre>
    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"
```

```
android:layout weight="1"
                android:text="Data Received"
                android:textColor="#FFD600"
                android:textSize="20sp" />
        </LinearLayout>
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
// Second 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);
        public Students[] newArray(int size) {
            return new Students[size];
        }
    };
    @Override
    public int describeContents() {
        return 0;
```

```
}
@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;
```

}

Paracable_Method

parcelable

name Name

SEND_DATA