Slip no – 12

Q1.Create a Simple Application Which Send ―Hi‖ message from one activity to another with help of Button (Use Intent).

activity\_main.xml

<?*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*=".MainActivity">  
 <EditText  
 *android:id*="@+id/edit\_text"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_gravity*="center"  
 *android:inputType*="text"/>  
 <Button  
 *android:id*="@+id/btn"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Click here"  
 *android:layout\_gravity*="center"  
 *android:layout\_marginTop*="16dp"/>  
  
</LinearLayout>

MainActivity.java

*package* com.example.slipno5;  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*import* android.content.Intent;  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* android.widget.EditText;  
*import* android.widget.TextView;  
  
*import* java.time.temporal.ValueRange;  
  
*public class* MainActivity *extends* AppCompatActivity {  
 *private static* String *value*;  
 *public static* String getValue(){  
 *return value*;  
 }  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 *final* EditText edittext= (EditText)findViewById(R.id.*edit\_text*);  
 Button button= (Button)findViewById(R.id.*btn*);  
 button.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View view) {  
 *value* = edittext.getText().toString().trim();  
 Intent intent=*new* Intent(MainActivity.*this*,ResultActivity.*class*);  
 startActivity(intent);  
 }  
 });  
  
 }  
}

activity\_result.xml

<?*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"  
 *tools:context*=".ResultActivity">  
  
 <TextView  
 *android:id*="@+id/text\_view"  
 *android:layout\_width*="327dp"  
 *android:layout\_height*="50dp"  
 *android:textSize*="30dp"  
 *android:layout\_gravity*="center" />  
  
</LinearLayout>

ResultActivity.java

*package* com.example.slipno5;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*import* android.os.Bundle;  
*import* android.widget.TextView;  
  
*public class* ResultActivity *extends* AppCompatActivity {  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_result*);  
 TextView textView = findViewById(R.id.*text\_view*);  
 textView.setText(MainActivity.*getValue*());  
 }  
}

Q.2 Create an application to demonstrate date and time picker.

activity\_main.xml

<?*xml version*="1.0" *encoding*="utf-8"?>  
<RelativeLayout *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *xmlns:tools*="http://schemas.android.com/tools"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *tools:context*=".MainActivity">  
 <Button  
 *android:id*="@+id/buttonPickDate"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Pick Date"  
 *android:layout\_centerHorizontal*="true"  
 *android:layout\_marginTop*="50dp"/>  
 <TextView  
 *android:id*="@+id/textViewDate"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Selected Date: "  
 *android:layout\_below*="@id/buttonPickDate"  
 *android:layout\_centerHorizontal*="true"  
 *android:layout\_marginTop*="20dp"/>  
 <Button  
 *android:id*="@+id/buttonPickTime"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Pick Time"  
 *android:layout\_below*="@id/textViewDate"  
 *android:layout\_centerHorizontal*="true"  
 *android:layout\_marginTop*="50dp"/>  
 <TextView  
 *android:id*="@+id/textViewTime"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Selected Time: "  
 *android:layout\_below*="@id/buttonPickTime"  
 *android:layout\_centerHorizontal*="true"  
 *android:layout\_marginTop*="20dp"/>  
</RelativeLayout>

MainActivity.java

*package* com.example.slipno5;  
  
*import* android.app.DatePickerDialog;  
*import* android.app.TimePickerDialog;  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* android.widget.DatePicker;  
*import* android.widget.TextView;  
*import* android.widget.TimePicker;  
*import* androidx.appcompat.app.AppCompatActivity;  
*import* java.util.Calendar;  
*public class* MainActivity *extends* AppCompatActivity {  
 *private* TextView textViewDate, textViewTime;  
 *private* Button buttonPickDate, buttonPickTime;  
 *private* Calendar calendar;  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 textViewDate = findViewById(R.id.*textViewDate*);  
 textViewTime = findViewById(R.id.*textViewTime*);  
 buttonPickDate = findViewById(R.id.*buttonPickDate*);  
 buttonPickTime = findViewById(R.id.*buttonPickTime*);  
 calendar = Calendar.*getInstance*();  
 buttonPickDate.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 showDatePickerDialog();  
 }  
 });  
 buttonPickTime.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 showTimePickerDialog();  
 }  
 });  
 }  
 *private void* showDatePickerDialog() {  
 DatePickerDialog datePickerDialog = *new* DatePickerDialog(  
 *this*,  
 *new* DatePickerDialog.OnDateSetListener() {  
 @Override  
 *public void* onDateSet(DatePicker view, *int* year, *int* month, *int* dayOfMonth) {  
 calendar.set(Calendar.***YEAR***, year);  
 calendar.set(Calendar.***MONTH***, month);  
 calendar.set(Calendar.***DAY\_OF\_MONTH***, dayOfMonth);  
 updateDateTextView();  
 } },  
 calendar.get(Calendar.***YEAR***),  
 calendar.get(Calendar.***MONTH***),  
 calendar.get(Calendar.***DAY\_OF\_MONTH***)  
 );  
 datePickerDialog.show();  
 }  
 *private void* showTimePickerDialog() {  
 TimePickerDialog timePickerDialog = *new* TimePickerDialog(  
 *this*,  
 *new* TimePickerDialog.OnTimeSetListener() {  
 @Override  
 *public void* onTimeSet(TimePicker view, *int* hourOfDay, *int* minute) {  
 calendar.set(Calendar.***HOUR\_OF\_DAY***, hourOfDay);  
 calendar.set(Calendar.***MINUTE***, minute);  
 updateTimeTextView();  
 } },  
 calendar.get(Calendar.***HOUR\_OF\_DAY***),  
 calendar.get(Calendar.***MINUTE***),  
 *true* );  
 timePickerDialog.show();  
 }  
 *private void* updateDateTextView() {  
 String selectedDate = "Selected Date: " + calendar.get(Calendar.***YEAR***) + "/" +  
 (calendar.get(Calendar.***MONTH***) + 1) + "/" + calendar.get(Calendar.***DAY\_OF\_MONTH***);  
 textViewDate.setText(selectedDate);  
 }  
 *private void* updateTimeTextView() {  
 String selectedTime = "Selected Time: " + calendar.get(Calendar.***HOUR\_OF\_DAY***) + ":" +  
 String.*format*("%02d", calendar.get(Calendar.***MINUTE***));  
 textViewTime.setText(selectedTime);  
 }  
}