## CYCLE-2

#### **Question-1**

#### activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<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/textView"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="TextView"
       tools:layout editor absoluteX="176dp"
       tools:layout editor absoluteY="269dp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintLeft toLeftOf="parent"
       app:layout_constraintRight toRightOf="parent"
       app:layout constraintTop toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.datetime;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
import java.text.SimpleDateFormat;
import java.util.Date;
public class MainActivity extends AppCompatActivity {
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    TextView textView=findViewById(R.id.textView);
    SimpleDateFormat sdf=new SimpleDateFormat("yyyy.MM.dd G 'at'HH:mm:ss
z");
    String currentDateandTime=sdf.format(new Date());
    textView.setText(currentDateandTime);
}
```

## **Output**



#### **Question-2**

```
package com.example.activity lifecycle;
import androidx.appcompat.app.AppCompatActivity;
import android.util.Log;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
   @Override
  protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
     Log.d("lifecycle","onCreate invoked");
}
   @Override
  protected void onStart() {
       super.onStart();
      Log.d("lifecycle","onStart invoked");
   @Override
   protected void onResume() {
       super.onResume();
       Log.d("lifecycle","onResume invoked");
   @Override
   protected void onPause() {
       super.onPause();
       Log.d("lifecycle", "onPause invoked");
   @Override
   protected void onStop() {
       super.onStop();
       Log.d("lifecycle","onStop invoked");
   @Override
   protected void onRestart() {
       super.onRestart();
       Log.d("lifecycle", "onRestart invoked");
   @Override
  protected void onDestroy() {
       super.onDestroy();
       Log.d("lifecycle", "onDestroy invoked");
   }
```

# Activity\_main..xml

```
<?xml version="1.0" encoding="utf-8"?>
<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">
   <Button
       android:id="@+id/button2"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="hai"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintHorizontal bias="0.498"
       app:layout_constraintLeft_toLeftOf="parent"
       app:layout constraintRight toRightOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.499"
       tools:ignore="MissingConstraints" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

## <u>Output</u>

```
| Communicative | Communicativ
```

## **Question-3**

## Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<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"
   <Button
       android:id="@+id/button"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="Press ME"
       app:layout_constraintBottom_toBottomOf="parent"
       app:layout constraintLeft toLeftOf="parent"
       app:layout constraintRight toRightOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.499">
   </Button>
```

## Activity\_second.xml

```
<?xml version="1.0" encoding="utf-8"?>
<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"
   <Button
       android:id="@+id/button"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="Press ME"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintLeft toLeftOf="parent"
       app:layout constraintRight toRightOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.499">
   </Button>
   />
```

# </androidx.constraintlayout.widget.ConstraintLayout>

```
package com.example.intents;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.view.View;
import android.os.Bundle;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {
   Button btn;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
}
```

## second\_activity.java

```
package com.example.intents;
import android.os.Bundle;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

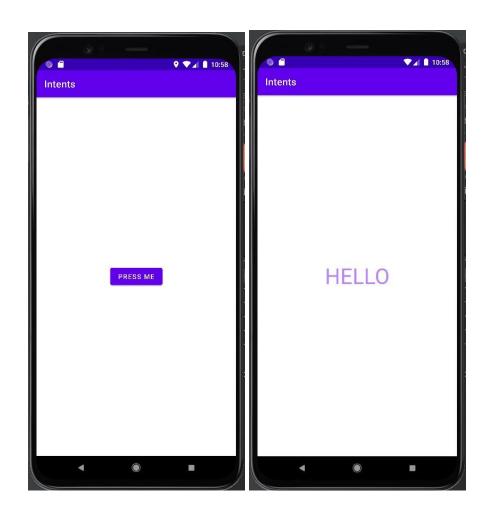
public class second_activity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        TextView text=findViewById(R.id.text);
        text.setText("HELLO");
    }
}
```

# **AndroidManifest.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
   package="com.example.intents">

   <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Intents">
        <activity
        android:name=".MainActivity"</pre>
```

# **Output**



#### **Question-4**

#### Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<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"
   >
   <Button
       android:id="@+id/button"
       android:layout width="wrap content"
       android:layout_height="wrap_content"
       android:text="Send"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintLeft toLeftOf="parent"
       app:layout constraintRight toRightOf="parent"
       app:layout_constraintTop_toTopOf="parent"
       app:layout constraintVertical bias="0.499">
   </Button>
   <EditText
       android:id="@+id/editText"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:hint="Type Here"
       android:ems="10"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintHorizontal bias="0.497"
       app:layout constraintLeft toLeftOf="parent"
       app:layout constraintRight toRightOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout_constraintVertical_bias="0.403" />
   />
```

</androidx.constraintlayout.widget.ConstraintLayout>

#### second activity.xml

```
<?xml version="1.0" encoding="utf-8"?>
<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=".second activity"
   <TextView
       android:id="@+id/text"
       android:layout width="wrap content"
       android:layout height="wrap content"
       tools:layout editor absoluteX="178dp"
       tools:layout editor absoluteY="351dp"
       tools:ignore="MissingConstraints"
       android:textColor="@color/purple 200"
       android:textSize="44dp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout_constraintLeft_toLeftOf="parent"
       app:layout constraintRight toRightOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.499"/>
```

</androidx.constraintlayout.widget.ConstraintLayout>

```
package com.example.dataintents;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.view.View;
import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;

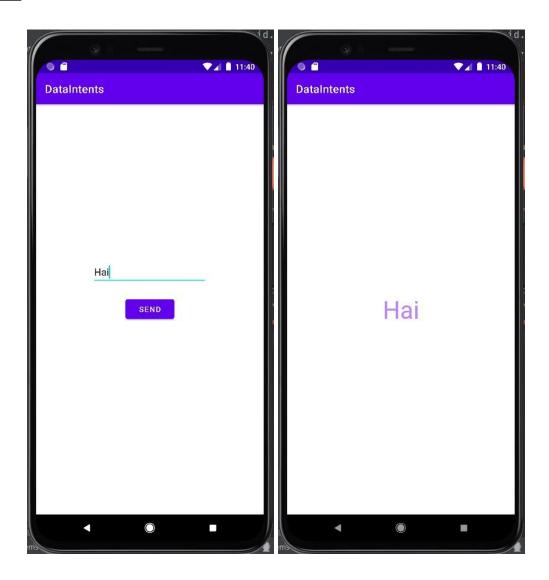
public class MainActivity extends AppCompatActivity {
   Button btn;
   EditText editText;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
```

```
btn = (Button) findViewById(R.id.button);
editText = (EditText) findViewById(R.id.editText);
btn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String str= editText.getText().toString();
        Intent intent=new Intent(getBaseContext(),
second_activity.class);
        intent.putExtra("message_key", str);
        startActivity(intent);
    }
});
}
```

## Second\_activity.java

```
package com.example.dataintents;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class second activity extends AppCompatActivity {
   TextView text;
   @Override
  protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.second activity);
       text=(TextView) findViewById(R.id.text);
       Intent intent= getIntent();
       String str=intent.getStringExtra("message_key");
       text.setText(str);
   }
}
```

# <u>Output</u>



#### **Question-5**

#### **Activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<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"
   >
   <Button
       android:id="@+id/button"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="Implicit Intent"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintHorizontal bias="0.498"
       app:layout constraintLeft toLeftOf="parent"
       app:layout_constraintRight_toRightOf="parent"
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.499">
   </Button>
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.implicit_intents;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.view.View;
import android.os.Bundle;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {
    Button btn;

@Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
}
```

```
setContentView(R.layout.activity_main);
btn = (Button) findViewById(R.id.button);
btn.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View v) {
          Intent intent=new Intent(Intent.ACTION_VIEW);

intent.setData(Uri.parse("https://en.wikipedia.org/wiki/Main_Page"));
          startActivity(intent);
     }
});
}
```

#### **Output**

