Practical No 15

X.1

- **Program**

- **XML File:**

```xml
<?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">

 <TextView

 android:id="@+id/textView"

 android:layout_width="wrap_content"

 android:layout_height="wrap_content"

 android:layout_marginStart="73dp"

 android:layout_marginTop="78dp"

 android:layout_marginEnd="280dp"

 android:layout_marginBottom="634dp"

 android:text="Hello World, Toast Example"

 android:textSize="20sp"

 android:textStyle="bold"

 app:layout_constraintBottom_toBottomOf="parent"

 app:layout_constraintEnd_toEndOf="parent"

 app:layout_constraintHorizontal_bias="0.3"

 app:layout_constraintStart_toStartOf="parent"

 app:layout_constraintTop_toTopOf="parent"
```

```xml
        app:layout_constraintVertical_bias="0.0" />

    <Button

    android:id="@+id/button"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:layout_marginStart="39dp"

    android:layout_marginTop="29dp"

    android:layout_marginEnd="239dp"

    android:layout_marginBottom="549dp"

    android:text="Show Toast"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toBottomOf="@+id/textView" />

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

- **Toast.xml File:**

```xml
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"

 android:id="@+id/toast_root_view"

 android:orientation="vertical"

android:layout_width="match_parent"

 android:layout_height="match_parent"

android:background="@android:color/background_dark"

 android:padding="16dp">

 <TextView android:id="@+id/toast_header" android:textSize="20dp"
```

```xml
                  android:textColor="@android:color/primary_text_dark"

                  android:layout_width="match_parent"

                  android:layout_height="match_parent" />

                  <TextView android:id="@+id/toast_body"

                  android:textColor="@android:color/primary_text_dark"

                  android:layout_width="match_parent"

                  android:layout_height="match_parent" />

                  </LinearLayout>
```

- **JAVA File:**

```java
  package com.example.pr_15_1;

  import androidx.appcompat.app.AppCompatActivity;

  import android.os.Bundle;

  import android.view.Gravity;

  import android.view.LayoutInflater;

  import android.view.View;

  import android.view.ViewGroup;

  import android.widget.Button;

  import android.widget.TextView;

  import android.widget.Toast;

  public class MainActivity extends AppCompatActivity {

   Button button;

   @Override

   protected void onCreate(Bundle savedInstanceState) {

   super.onCreate(savedInstanceState);

   setContentView(R.layout.activity_main);

   button=findViewById(R.id.button);
```
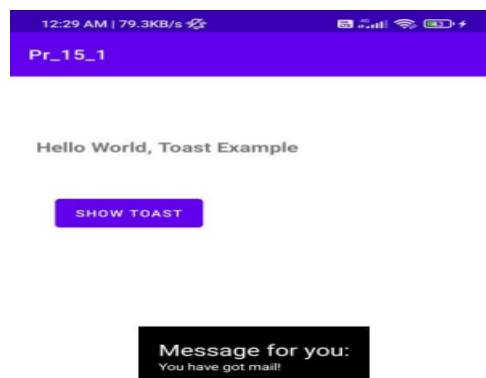
```java
button.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

LayoutInflater inflater = getLayoutInflater();

View toastLayout = inflater.inflate(R.layout.toast, (ViewGroup)

findViewById(R.id.toast_root_view));

TextView header = (TextView)

toastLayout.findViewById(R.id.toast_header); header

.setText("Message for you:");

TextView body = (TextView)

toastLayout.findViewById(R.id.toast_body); body

.setText("You have got mail!");

Toast toast = new Toast(getApplicationContext());

toast.setGravity(Gravity.CENTER, 0, 0);

toast.setDuration(Toast.LENGTH_LONG);

toast.setView(toastLayout);

toast.show();

}

}); }

}
```

- **Output:**

- **Program**
- **XML File:**

```xml
<?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">
<CheckBox
 android:id="@+id/cb1"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_marginStart="120dp"
 android:layout_marginTop="69dp"
 android:layout_marginEnd="146dp"
 android:layout_marginBottom="71dp"
 android:text="Coffee"
 android:textSize="24sp"
 android:textStyle="bold"
 app:layout_constraintBottom_toTopOf="@+id/cb2"
 app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.0"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toBottomOf="@+id/cb"
 app:layout_constraintVertical_bias="0.0" />
```

```xml
<CheckBox
android:id="@+id/cb2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="120dp"
android:layout_marginEnd="146dp"
android:layout_marginBottom="360dp"
android:text="Burger"
android:textSize="24sp"
android:textStyle="bold"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintStart_toStartOf="parent" />
<CheckBox
android:id="@+id/cb"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="120dp"
android:layout_marginTop="92dp"
android:layout_marginEnd="160dp"
android:text="Pizza"
android:textSize="24sp"
android:textStyle="bold"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintStart_toStartOf="parent"
```

app:layout_constraintTop_toTopOf="parent" />

<Button

android:id="@+id/button"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginStart="146dp"

android:layout_marginTop="150dp"

android:layout_marginEnd="146dp"

android:layout_marginBottom="122dp"

android:text="Order"

android:textSize="24sp"

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/cb2"

app:layout_constraintVertical_bias="0.0" />

</androidx.constraintlayout.widget.ConstraintLayout>

- **JAVA File:**

package com.example.pr_15_2;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

```java
Button button;

CheckBox cb,cb1,cb2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

button=findViewById(R.id.button);

cb=findViewById(R.id.cb);

cb1=findViewById(R.id.cb1);

cb2=findViewById(R.id.cb2);

button.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

int totalamount=0;

StringBuilder result=new StringBuilder();

if (cb.isChecked()){

result.append("\nPizza 100Rs");

totalamount+=100; }

if (cb1.isChecked()){

result.append("\nCoffee 50Rs");

totalamount+=50; }

if (cb2.isChecked()){

result.append("\nBurger 120Rs");

totalamount+=120; }

result.append("\nTotal: "+totalamount+"Rs");

Toast.makeText(MainActivity.this, "Selected

Items:"+result.toString(), Toast.LENGTH_SHORT).show();
```

```
    }

}); } }
```

- **Output:**