Exercise:

1. **Write a program to display following toast message.**
   - **activity_main.xml**

```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.co
m/tools"
  android:layout_width="match_parent"
 android:layout_height="match_parent"
  android:layout_margin="20dp"
  android:orientation="vertical"
  tools:context=".MainActivity">
  <TextView   android:id="@+id/t1"
    android:layout_width="wrap_content"
    android:layout_height="50dp"
    android:text="Hello World,Toast
Example"
    android:textSize="25dp"
    android:textStyle="bold">
  </TextView>
  <Button    android:id="@+id/b1"
    android:layout_marginTop="40dp"
 android:layout_width="match_parent"
  android:layout_height="wrap_content"
    android:paddingRight="20dp"
    android:text="Show Custom Toast"
    android:textSize="25dp"></Button>
</LinearLayout>
```

   - **acitivitymain.java**

```java
package com.example.pr15q1;
import
androidx.appcompat.app.AppCompatAct
ivity;
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;
   protected void onCreate(Bundle
savedInstanceState) {
      super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
      button=findViewById(R.id.b1);
      button.setOnClickListener(new
View.OnClickListener() {
         public void onClick(View v){
            LayoutInflater inflater =
getLayoutInflater();
View layout
=inflater.inflate(R.layout.custom_
toast,(ViewGroup)
findViewById(R.id.custom1));

TextView textView = (TextView)
layout.findViewById(R.id.t1);
TextView textView1 = (TextView)
layout.findViewById(R.id.t2);
=textView.setText("Message for you :");
textView1.setText("You have got mail !");
Toast toast = new
Toast(getApplicationContext());
toast.setDuration(Toast.LENGTH_LON
G);
toast.setGravity(Gravity.CENTER_HOR
IZONTAL, 20, 300);
        toast.setView(layout);
        toast.show();
}});
   }
}
```
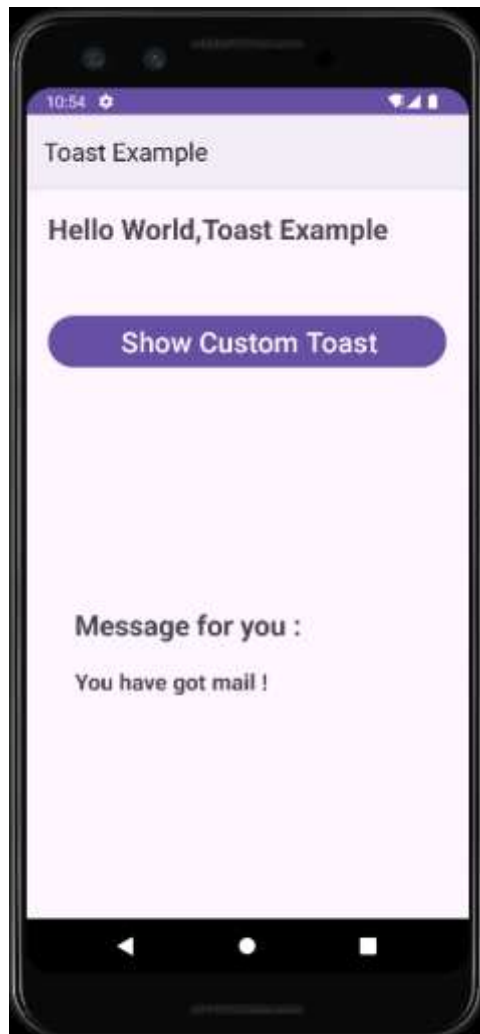
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- **custom_toast.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.
com/apk/res/android"
  android:layout_width="match_parent"
 android:layout_height="match_parent"
  android:id="@+id/custom1"
  android:orientation="horizontal">
  <TextView  android:id="@+id/t1"
    android:layout_marginTop="20dp"
android:layout_width="match_parent"
android:layout_height="wrap_content"
    android:textSize="25dp"
```

```xml
    android:textStyle="bold">
  </TextView>
  <TextView
    android:id="@+id/t2"
    android:layout_below="@+id/t1"
    android:layout_marginTop="20dp"
android:layout_width="match_parent"
android:layout_height="wrap_content"
    android:textSize="20dp"
    android:textStyle="bold">
  </TextView>
</RelativeLayout>
```

OUTPUT:

2. **Write a program to display following toast message.**
   - **activity_main.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.
com/apk/res/android"
  android:layout_width="match_parent"
   android:orientation="vertical"
   android:gravity="center_horizontal"
   android:layout_margin="20dp"
android:layout_height="match_parent">
   <CheckBox
android:layout_width="wrap_content"
android:layout_height="wrap_content"
     android:text="Pizza"
     android:layout_margin="25dp"
     android:id="@+id/c1"
     android:padding="10dp"
     android:textSize="25dp"/>
   <CheckBox
android:layout_width="wrap_content"
android:layout_height="wrap_content"
     android:text="Coffee"
```

```xml
     android:layout_margin="25dp"
     android:id="@+id/c2"
     android:padding="10dp"
     android:textSize="25dp"/>
  <CheckBox
android:layout_width="wrap_content"
android:layout_height="wrap_content"
     android:text="Burger"
     android:id="@+id/c3"
     android:layout_margin="25dp"
     android:padding="10dp"
     android:textSize="25dp"/>
  <Button
android:layout_width="wrap_content"
android:layout_height="wrap_content"
     android:text="ORDER"
android:background="@color/black"
     android:layout_marginTop="50dp"
     android:id="@+id/btn1"
     android:textSize="30dp"/>
</LinearLayout>
```

- **acitivitymain.java**

```java
package com.example.pr15q2;
import android.os.Bundle;
import android.view.Gravity;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.Toast;
import androidx.appcompat.app.
AppCompatActivity;
public class MainActivity extends
AppCompatActivity {
   Button b1,btn;
   CheckBox c1,c2,c3;
   String str=" ";
   public void onCreate(Bundle
savedInstanceState) {
      super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
      c1=findViewById(R.id.c1);
      c2=findViewById(R.id.c2);
      c3=findViewById(R.id.c3);
      btn=findViewById(R.id.btn1);
```

```java
      btn.setOnClickListener(new
View.OnClickListener(){
        public void onClick(View view){
int c=0;  str="";
if(c1.isChecked()){
str+="Pizza:50rs\n";  c+=50; }
if(c2.isChecked()){
str+="Coffee:120rs\n";c+=120;}
if(c3.isChecked()) {
str+="Burger:20rs\n";c+=20;}
Toast t=new Toast
(getApplicationContext());
View vi=getLayoutInflater().inflate
(R.layout.check_cust_toast,(ViewGroup)f
indViewById(R.id.l1));
t.setView(vi);
Button b1=vi.findViewById(R.id.b1);
b1.setText("You Selected Items :
\n"+str+"\nTotal : "+c);
t.setDuration(Toast.LENGTH_LONG);
\t.setGravity(Gravity.BOTTOM,0,0);
t.show();}});}
}
```

- **check_cust_toast.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="match_parent"
  android:id="@+id/l1"   android:layout_height="match_parent">
  <Button    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/b1"/>
</LinearLayout>
```

OUTPUT: