**TASK NO.1**

Create an application which can manipulate a Clock object having hours, minutes and seconds as integer attributes.

**CODING:**

**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">

<TextView

android:id="@+id/time"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:layout\_marginTop="20dp"

android:textSize="30dp"

android:text="00:00:00"/>

<RadioGroup

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content">

<RadioButton

android:id="@+id/hr"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hours"/>

<RadioButton

android:id="@+id/min"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Minutes"/>

<RadioButton

android:id="@+id/sec"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Seconds"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Update"

android:layout\_gravity="center"

android:onClick="UpdateTime" />

</RadioGroup></LinearLayout>

**Activity\_Update.xml:**

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

android:layout\_height="match\_parent"

tools:context=".UpdateActivity"

android:padding="20dp"

android:orientation="vertical">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="50dp" />

<Button

android:layout\_marginTop="20dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:onClick="updateBtn"

/>

</LinearLayout>

**MainActivity.java:**package com.example.myapplication;

import android.app.Instrumentation;

import android.content.Intent;

import android.support.annotation.Nullable;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.RadioButton;

import android.widget.TextView;

import java.io.Serializable;

public class MainActivity extends AppCompatActivity {

RadioButton radId[];

TextView txt;

Intent i;

Time t;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

i = new Intent(getApplicationContext(),UpdateActivity.class);

txt = (TextView)findViewById(R.id.time);

radId = new RadioButton[] {

(RadioButton)findViewById(R.id.hr),

(RadioButton)findViewById(R.id.min),

(RadioButton)findViewById(R.id.sec)

};

t = new Time();

}

public void UpdateTime(View v){

Integer code = 0;

if (radId[0].isChecked()){

code = 1;

}

else if (radId[1].isChecked()){

code = 2;

}

else if (radId[2].isChecked()){

code = 3;

}

Bundle b = new Bundle();

b.putSerializable("time", (Serializable) t);

startActivityForResult(i,code);

}

public void onActivityResult(int requestCode, int resultCode, Intent data){

}

}

class Time{

private Integer hr;

private Integer min;

private Integer sec;

public void setHr(Integer hr){

this.hr = hr;

}

public void setMin(Integer min){

this.min = min;

}

public void setSec(Integer sec){

this.sec = sec;

}

public String getTime(){

return hr.toString() + ":" + min.toString() + ":" + sec.toString();

}

}

**UpdateActivity.java**

package com.example.myapplication;

import android.content.Intent;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

public class UpdateActivity extends AppCompatActivity {

Time t;

Intent i;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_update);

i = getIntent();

t = (Time) i.getSerializableExtra("time");

}

public void updateBtn(View v){

}

}

**OUTPUT:**



