

## Practical :-7

### Activity - main.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">
    <com.google.android.material.appbar.AppBarLayout
        android:id="@+id/app_bar"
        android:layout_width="match-parent"
        android:layout_height="wrap-content"
        app:layout_constraintTop-toTopOf="parent">
        <androidx.appcompat.widget.Toolbar
            android:layout_width="match-parent"
            android:layout_height="wrap-content">
            <TextView>
                android:layout_width="wrap-content"
                android:layout_height="wrap-content",
                android:text="Aldan Application"
                android:textSize="18dp"
                android:textStyle="bold"/>
        </androidx.appcompat.widget.Toolbar>
    </com.google.android.material.appbar.AppBarLayout>
```



```
<com.google.android.material.appbar.AppBarLayout  
<androidx.core.widget.NestedScrollView  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    app:layout_constraintTop_toBottomOf="@+id/appbar"  
    app:layout_constraintStart_toStartOf="parent"  
    android:layout_marginTop="60dp"  
    app:layout_behavior="@string/appbar_scrolling_view_behavior">  
  
<LinearLayout  
    android:id="@+id/layoutWidth" "match_parent"  
    android:layout_height="match_parent"  
    android:orientation="vertical")  
<com.google.android.material.card.CardView  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginStart="20dp"  
    android:layout_marginTop="30dp"  
    android:layout_marginEnd="20dp"  
    app:cardCornerRadius="15dp"  
    app:cardElevation="10dp")  
    android:layout_marginBottom="60dp")  
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:orientation="vertical")  
<ImageView  
    android:layout_width="match_parent"  
    android:layout_height="200dp"/>
```

android: SSS = " @drawable / alarm "

android: scaleType = " Fitxy " />

<ImageLayout

android: layout\_width = " match\_parent "

android: layout\_height = " wrap\_content "

android: backgroundTint = "# EACFEA"

android: padding = " 20dP " />

< TextView

android: layout\_width = " wrap\_content "

android: layout\_height = " wrap\_content "

android: text = " Create Alarm timer "

android: textStyle = " bold "

android: textSize = " 18 dP " />

< TextView

android: layout\_width = " wrap\_content "

android: layout\_height = " wrap\_content "

android: layout\_marginTop = " 10dP " />

android: layout\_marginStart = " 10dP " />

android: text :

" By pressing buttons, Alarm can be created  
and cancelled . " />

< TextView

android: layout\_width = " wrap\_content " />

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

android: layout\_marginStart = " 20dP " />

android: text =

" check current time by looking below real  
digital clock " />

android: layout\_marginTop = " 20dP " />



< TextClock

```
    android:id="@+id/time - tv"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="show time here"
    android:textStyle="bold"
    android:layout_marginTop="20dp"
    android:textSize="15dp"/>
<com.google.android.material.button.MaterialButton
```

Button

```
    android:id="@+id/btn-set-alarm"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content",
    app:cornerRadius="25dp"
    android:layout_marginTop="20dp",
    android:icon="@drawable/ic_baseline_clock_24"
    android:text="Create Alarm"
    android:textStyle="bold"
    android:textAllCaps="false"/>
</LinearLayout>
```

</LinearLayout>

```
<com.google.android.material.card.CardView>
```

```
<com.google.android.material.card.CardView>
```

```
    android:id="@+id/cancelAlarmCardView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
```



android: layout-marginStart = "20dp"

android: layout-marginEnd = "20dp"

app: cardCornerRadius = "15dp"

app: cardElevation = "20dp")

<linearlayout

android: layoutWidth = "match-parent"

android: layoutHeight = "match-parent"

android: orientation = "vertical")

<imageview

android: layoutWidth = "match-parent"

android: layoutHeight = "200 dp")

android: scaleType = "FitXY"

android: src = "@drawable/lulicon")

<linearlayout

android: layoutWidth = "match-parent"

android: layoutHeight = "wrap-content"

android: backgroundTint = "# FAEFAE"

android: orientation = "vertical")

android: padding = "20dp")

<linearlayout

<linearlayout

// com.google.android.material.card

materialcardviews

<linearlayout

// androidx.core.widget.nestedscrollviews

<constraintlayout.widget-  
constraint layout)



main Activity . kt

package com.example.mvndp07\_21012022012

import android.app.AlarmManager

import android.content.Intent

import android.app.TimePickerDialog

import android.content.Intent

import androidx.appcompat.app.AppCompatActivity

Activity

import android.os.Bundle

import android.view.View

import android.widget.TextView

import android.widget.TextView

import com.google.android.material.button  
MaterialButton

import com.google.android.material.card  
MaterialCardView

import java.util.util

class MainActivity : AppCompatActivity

Var mil : long = 0

override fun onCreate(savedInstanceState: Bundle?)

Bundle?)

super.onCreate(savedInstanceState)

setContentView(R.layout.activity\_main)

val cancel Alarm CardView = findViewById

By Id < materialCardView

< R.id.cancel\_alarm\_card\_view>

val BtnCreateAlarm = findViewById<

MaterialButton> (R.id.btn\_set\_alarm)

val `clockTC` = findViewById(R.id.text\_clock)  
- time - v)

`ClockTC`. `formatText` `Hour` = " hh:mm:ss a"

cancelAlarm `alarmCardView`. `visibility` = view. gone

Btn create `alarm`, setOnTouchListener

vur `cal`; `calendar` = `Calendar.getInstance()`

vur `hour` = `cal.get(Calendar.HOUR_OF_DAY)`

vur `min` = `cal.get(Calendar.MINUTE)`

vul `Pd` = `TimePickerDialog` (this, `timePicker`  
dialog, `onTimeSetListener` `function` = &

`view.h, m →`

`mili` = `getMillis` (`ch.m`)

`setAlarm` (`getMillis` (`ch.m`), " start")

cancelAlarm `alarmCardView`. `visibility` = view. visible

`setAlarmTime`. `text` = h. `toString` () + ":" + m. `toString`  
) , hour. min. `lapse`)

+ `Pd`. `show()`

}

Btn cancel `alarm`, setOnTouchListener &

`SetAlarm` (`mili`, " stop")

cancelAlarm `alarmCardView`. `visibility` = view. gone

}

b

@fun `setAlarm` (`millis`: long, `str`: String)

s

vul `intent` = `Intent` (this, `AlarmBroadcastReceiver`!,  
`class`. `java`)

`intent.putExtra` (" servicez ", `str`)

vul. `PendingIntent` =

opening Intent. getBroadcast c uplication context,

2315G783H331, intent, o)

val alarmmanager = getSystemService (AlarmManager)

as AlarmManager

if (str == "start") {

    AlarmManager. setExact (

        AlarmManager. RTC\_WAKEUP,

    millisTime,

    PendingIntent

)

) else if (str == "stop")

2

    AlarmManager. cancel (PendingIntent)

    sendBroadcast (intent)

3

)

fun getMillis (hour: int, min: int): long

4

    val calendar = Calendar. getInstance ()

    setCalendar (calendar. HOUR\_OF\_DAY) = hour

    setCalendar (calendar. MINUTE) = min

    setCalendar (calendar. SECOND) = 0

    return setCalendar. timeInMillis

5

}

Alarm Broadcast Receiver.

package com.example.mudpat.21012022042;

import android.content.BroadcastReceiver  
import android.content.Context  
import android.content.Intent

class AlarmBroadcastReceiver : BroadcastReceiver {

override fun onReceive(context: Context, intent: Intent) {

val strz = intent.getStringExtra("ServiceZ")

if (strz == "start") strz = "stop"

else

val intentService = Intent(context, AlarmService::class.java)

intentService.putExtra("ServiceZ", intent.getStringExtra("ServiceZ"))

if (strz == "start")

val intentService = Intent(context, AlarmService::class.java)

intentService.putExtra("ServiceZ", intent.getStringExtra("ServiceZ"))

if (strz == "start")

else

context.startService(intentService)

else if (strz == "stop")

context.stopService(intentService)

content.stopservice('IntentService')

}

}

}

AlarmService.let!

package com.example.madpart; 21012022042

import android.app.Service

import android.content.Intent

import android.media.MediaPlayer

import android.os.IBinder

class AlarmService extends Service

Var MP: MediaPlayer? = null

override fun onBind(intent: Intent): IBinder?

iBinder?

"Return the communication channel  
to the service"

}

override fun onStartCommand(intent: Intent?  
, flags: Int, startId: Int): Int?

is intent != null ?

MP = MediaPlayer.create(this, R.raw.

alarm);

MP?.start()

)

return START\_STICKY

)

override fun ondestroy cis  
mp1, stopc)  
super. ondestroy()

}

}

Resource :

ND RAW  
clauncher.mp3

ND drawable  
clauncherips.xml  
ic\_baseline-add-  
circles-24.xml  
ic\_baseline-circle-  
088-24.xml  
ic\_lanucher-background  
• xml  
ic\_lanucher-background  
• xml