

Ans: Q1

MainActivity.java

```
package com.example.timepicker;

import
androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TextView;
import android.widget.TimePicker;

public class MainActivity extends
AppCompatActivity {

    TimePicker tp;

    Button b;

    TextView t;

    @Override

    protected void onCreate(Bundle
savedInstanceState) {

        super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

        tp =(TimePicker)
findViewById(R.id.Timepick);

        b = (Button) findViewById(R.id.btn);

        t = (TextView)
findViewById(R.id.tv2);

        tp.setIs24HourView(false);

        t.setText(getCurrentTime());

        b.setOnClickListener(new
View.OnClickListener() {

            @Override
```

```
public void onClick(View view) {

t.setText(getCurrentTime());});});

    private String getCurrentTime()

    {

        String currentTime="Current
Time:"+tp.getCurrentHour()+":"+tp.getCu
rrentMinute();

        return currentTime;

    }}
```

activity_main.xml

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

<AbsoluteLayout
xmlns:android="http://schemas.android.co
m/apk/res/android"

xmlns:app="http://schemas.android.com/a
pk/res-auto"

xmlns:tools="http://schemas.android.com/t
ools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    tools:context=".MainActivity">

    <TextView

        android:id="@+id/tv1"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_x="42dp"

        android:layout_y="50dp"

        android:text="TimePicker Demo"

        android:textSize="40dp"
```

```
android:textColor="@android:color/holo_red_dark"
```

```
</>
```

```
<TimePicker
```

```
    android:id="@+id/Timepick"
```

```
    android:layout_width="339dp"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_x="38dp"
```

```
    android:layout_y="134dp" />
```

```
<TextView
```

```
    android:id="@+id/tv2"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_x="38dp"
```

```
    android:layout_y="586dp"
```

```
    android:text=""
```

```
    android:textSize="20dp" />
```

```
<Button
```

```
    android:id="@+id/btn"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="36dp"
```

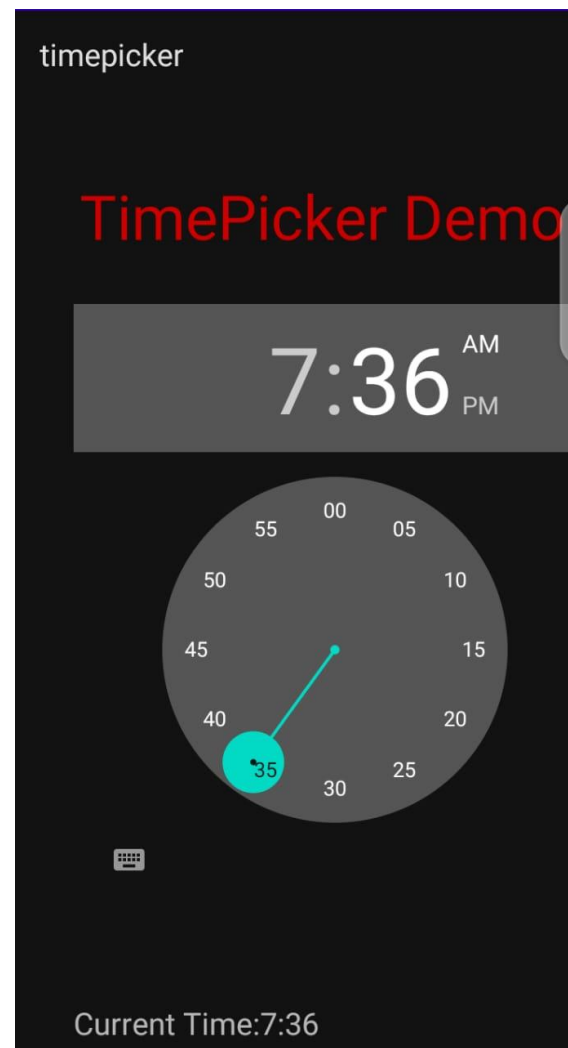
```
    android:layout_x="125dp"
```

```
    android:layout_y="651dp"
```

```
    android:text="Change Time" />
```

```
</AbsoluteLayout>
```

Output:



Ans: Q1

MainActivity.java

```
package com.example.datepicker;

import
androidx.appcompat.app.AppCompatActivity;

import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.TimePicker;
import java.util.Calendar;

public class MainActivity extends
AppCompatActivity implements

    View.OnClickListener {

    Button btnDatePicker, btnTimePicker;

    EditText txtDate, txtTime;

    private int mYear, mMonth, mDay,
mHour, mMinute;

    @Override

    protected void onCreate(Bundle
savedInstanceState) {

        super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

        btnDatePicker=(Button)findViewById(R.i
d.btndate);
```

```
btnTimePicker=(Button)findViewById(R.i  
d.btntime);
```

```
txtDate=(EditText)findViewById(R.id.dat  
e);
```

```
txtTime=(EditText)findViewById(R.id.time);
```

```
btnDatePicker.setOnClickListener(this);
```

```
btnTimePicker.setOnClickListener(this);
```

}

@Override

```
public void onClick(View v) {
```

```
if (v == btnDatePicker) {
```

```
final Calendar c =
Calendar.getInstance();
```

```
mYear = c.get(Calendar.YEAR);
```

```
mMonth =
c.get(Calendar.MONTH);
```

```
mDay =
c.get(Calendar.DAY_OF_MONTH);
```

```
DatePickerDialog
datePickerDialog = new
DatePickerDialog(this,
```

```
new
DatePickerDialog.OnDateSetListener() {
```

@Override

```
public void
onDateSet(DatePicker view, int year,
```

```
int
monthOfYear, int dayOfMonth) {
```

```

txtDate.setText(dayOfMonth + "-" +
(monthOfYear + 1) + "-" + year);

    }

    }, mYear, mMonth, mDay);

    datePickerDialog.show();

}

if (v == btnTimePicker) {

    // Get Current Time

    final Calendar c =
Calendar.getInstance();

    mHour =
c.get(Calendar.HOUR_OF_DAY);

    mMinute =
c.get(Calendar.MINUTE);

    // Launch Time Picker Dialog

    TimePickerDialog
timePickerDialog = new
TimePickerDialog(this,

        new
TimePickerDialog.OnTimeSetListener() {

            @Override

            public void
onTimeSet(TimePicker view, int
hourOfDay,int minute) {

txtTime.setText(hourOfDay + ":" +
minute);

        }

    }, mHour, mMinute, false);

    timePickerDialog.show();

}}

```

activity_main.xml

```

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

<AbsoluteLayout
xmlns:android="http://schemas.android.co
m/apk/res/android"

xmlns:app="http://schemas.android.com/a
pk/res-auto"

xmlns:tools="http://schemas.android.com/t
ools"

    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_x="15dp"

        android:layout_y="65dp"

        android:text="Date and Time Picker"

        android:textColor="@android:color/holo_r
ed_dark"

        android:textSize="40dp"

        android:textStyle="bold"

        tools:layout_editor_absoluteX="153dp"

        tools:layout_editor_absoluteY="43dp"

    />

    <EditText

```

```

        android:id="@+id/date"
        android:layout_width="237dp"

    android:layout_height="wrap_content"
        android:layout_x="17dp"
        android:layout_y="164dp"
        android:ems="10"
        android:hint="Click on Select Date
    Button"

    android:inputType="textPersonName"
        android:text="" />

    <Button
        android:id="@+id/btndate"
        android:layout_width="134dp"

    android:layout_height="wrap_content"
        android:layout_x="270dp"
        android:layout_y="159dp"
        android:text="Select Date"
    />

    <EditText
        android:id="@+id/time"
        android:layout_width="237dp"

    android:layout_height="wrap_content"
        android:layout_x="17dp"
        android:layout_y="250dp"
        android:ems="10"
        android:hint="Click On Select Time
    Button"

    android:inputType="textPersonName"

```

```

        android:text="" />

    <Button
        android:id="@+id/btntime"
        android:layout_width="134dp"

    android:layout_height="wrap_content"
        android:layout_x="270dp"
        android:layout_y="250dp"
        android:text="Select Time"

    />

</AbsoluteLayout>

```

Output:

