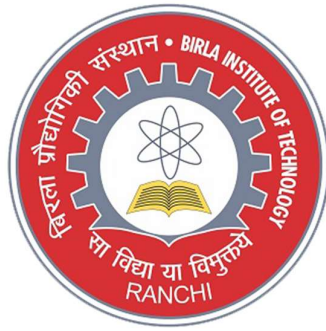


Birla Institute of Technology, Mesra,
Patna Campus



MI-LABQUIZ-2

Name-Shubham Sourabh

Roll-Btech/15044/18

Sec-CSE 6th

P. Statement:- Develop an application to make screen saver.

Code:-

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/screen_saver_clock"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:textAppearance="@android:style/TextAppearance.DeviceDefault.Large"
    android:textSize="@dimen/screen_saver_font_size"
    android:gravity="center"
    android:text="22:52">
</TextView>
```

ScreenSaver.java

```
package com.xrosscode.screensaver;
import android.app.AlarmManager;
import android.app.Application;
import android.app.PendingIntent;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.content.IntentFilter;
public class ScreenSaver extends Application {
    @Override
    public void onCreate() {
        super.onCreate();
        final IntentFilter filter = new IntentFilter();
```

```

filter.addAction(Intent.ACTION_SCREEN_OFF);
registerReceiver(new BroadcastReceiver() {
@Override
public void onReceive(final Context context, final Intent intent) {
startActivity(new Intent(context,
ScreenSaverActivity.class).addFlags(Intent.FLAG_ACTIVITY_NEW_TASK |
Intent.FLAG_ACTIVITY_CLEAR_TASK));
}
}, filter);
}
}

```

MainActivity.java

```

package com.xrosscode.screensaver;
import android.app.Activity;
import android.app.AlarmManager;
import android.app.PendingIntent;

import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
import android.os.Message;
import android.text.format.DateUtils;
import android.view.WindowManager;
import android.widget.TextView;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Timer;
import java.util.TimerTask;
public class ScreenSaverActivity extends Activity {
private static final SimpleDateFormat SIMPLE_DATE_FORMAT = new
SimpleDateFormat("HH:mm:ss");
private Timer timer;
private TextView txtClock;
@Override

```

```

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    getWindow().addFlags(0
        | WindowManager.LayoutParams.FLAG_KEEP_SCREEN_ON
        | WindowManager.LayoutParams.FLAG_TURN_SCREEN_ON
        | WindowManager.LayoutParams.FLAG_SHOW_WHEN_LOCKED);
    super setContentView(R.layout.screen_saver);
    this.txtClock = (TextView) findViewById(R.id.screen_saver_clock);
    this.timer = new Timer();
    this.timer.scheduleAtFixedRate(new TimerTask() {
        @Override
        public void run() {
            refresh();
        }
    }, 0, 1000L);
    @Override
    protected void onDestroy() {
        super.onDestroy();
        this.timer.cancel();
        this.timer = null;
    }
    private void refresh() {
        runOnUiThread(new Runnable() {
            @Override
            public void run() {
                txtClock.setText(SIMPLE_DATE_FORMAT.format(new Date()));
            }
        });
    }
}

```

Output:-

