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| A picture containing drawing, stop, room  Description automatically generated | Mobile Programming  Practical #4 | | |
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| **Subject/Course:** | Mobile Programming | | |
| **Topic** | Battery Plugin | | |
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| Battery Plugin | | | |
| 1. Create an app to display whether battery is charging or discharging. | | | |
| import android.content.Intent  import android.content.IntentFilter  import android.os.BatteryManager  import androidx.appcompat.app.AppCompatActivity  import android.os.Bundle  import android.widget.TextViewclass  MainActivity : AppCompatActivity()  {  override fun onCreate(savedInstanceState: Bundle?)  {  super.onCreate(savedInstanceState)setContentView(R.layout.activity\_main)  val t=findViewById<TextView>(R.id.textView)as TextViewval  iFilter:IntentFilter= IntentFilter(Intent.ACTION\_BATTERY\_CHANGED)  val bs: Intent?= this.registerReceiver(null,iFilter)  val status:Int=bs?.getIntExtra(BatteryManager.EXTRA\_STATUS,-1)?:-1  val isCharging:Boolean=status== BatteryManager.BATTERY\_STATUS\_CHARGING ||status== BatteryManager.BATTERY\_STATUS\_FULL  val level:Int=bs?.getIntExtra(BatteryManager.EXTRA\_LEVEL,-1)?:-1  val scale:Int=bs?.getIntExtra(BatteryManager.EXTRA\_SCALE,-1)?:-1  val batterylevel:Int=(((level.toFloat())/(scale.toFloat()))\*100.0f).toInt()  if(isCharging){  t.text= "Charging $batterylevel"  }  else{  t.text= "Discharging $batterylevel" +""  }  }  } | | | |
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| Battery Plugin |
| 1. Create an app to display the battery level. |
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