

* Write a Short Note on Notification.

=> A notification in the context of mobile applications refers to a message or alert that appears on a user's devices.

Notification informs them about the important information.

Notification allowing users to respond or take action directly from the notification panel.

=> Steps to add Notification:

1 Set Up Notification:

In `AndroidManifest.xml` file, Inside `application` tag, add `meta-data` element to define the default notification channel ID.

2 Create a Notification channel.

3 Build the Notification

4 Add Action

5 Show the Notification

=> Example: Implement SMS Notification.

```
public class MainActivity extends
    AppCompatActivity
```

```
{
```

```
    EditText et;
```

```
    Button btn;
```

```
    TextView tv;
```

```
    protected void onCreate() {
```

```
        {
```

```
            et = findViewById(R.id.et);
```

```
            btn = findViewById(R.id.btn);
```

```
            tv = findViewById(R.id.tv);
```

```
            btn.setOnClickListener(v ->
```

```
                sendSMS());
```

```
            registerReceiver(smsReceiver,
```

```
                new IntentFilter("android.
```

```
                    provider.Telephony.SMS_RECEIVED");
```

```
        }
```

```

private void sendSMSC()
{
    String PhoneNumber = et.getText().
    toString();
    String msg = "Notification";

    Intent intent = new Intent(
        Intent.ACTION_SENDTO);
    intent.setData(Uri.parse("sms:"
        + PhoneNumber));
    intent.putExtra("sms_body", msg);
    startActivity(intent);
    Toast.makeText(this, "SMS send",
        Toast.LENGTH_SHORT).show();
}

```

```

private BroadcastReceiver
    smsReceiver = new Broadcast
    Receiver()

```

```

{
    public void onReceive(Context
        context, Intent intent)

```

```

{
    Bundle bun = intent.getExtras();
    if (bun != null)

```

```

{
    Object[] pdu = (Object[])
        bun.get("pdu");

```

```

if (pdu != null)
{
    SMSMessage msg = SMSMessage.
    createFromPdu((byte[]) pdu
    [0]);
    String sender = msg.getDisplay
    Originating Address();
    String message = msg.get
    MessageBody();
    tv.setText("SMS From: " +
    sender + message);
}
}
}
};

```

```

protected void onDestroy()

```

```

{
    super.onDestroy();

```

```

    unregisterReceiver (smsReceiver);
}
}

```