Design an Android Application using GUI components, Font and colors.

```
-Ans!-
        Activity-main.xm1:-
       < 9xml version="1.0" encoding = "utf-8"?>

    Linearlayout xmlns: and soid = "https:// Schemas, and roid.com/apk/res/android"

                android: orientation: "Vertical"
                and roid: layout_width = "match-Parent"
                android: layout_height: "match_parent">
                2 Text View
                     android : id = " @tid/text View"
                     android : layout _ width = "match_Pasent"
                     android: layout_height = "wrap_content"
                     and roid: layout_margin = "30dp"
                     android: gravity = "center"
                     android: text = " Hello World!"
                     android: text Size: "25 sp"
                     android: textStyle = "bold"/>
               1Button
                     android: id = "@+id/button1"
                    android: layout-width = "match-Parent"
                     android: layout-height: "wrap-content"
                     android: layout-margin = "20dp"
                    android: gravity: "center"
                     android: text = "change font size"
                     android: textSize: "25sp"/>
              < Button
                    android: id = "Qid/button 2"
```

android: layout-width = "match-parent" android: layout-height = "wrop content" ardioid: layout-margin = "20dp" android: gravity: "center" android: text = "change color" android: textsrze: "25 sp"/>

20) Explain about Receiving and Broadcasting Intents with an Example.

Intents serve yet another purpose. You can broadcast an Intent Object

(via a call to broadcast Intenti) to the Android System, and any application
interested can receive the broadcast (called a Broad cast Receiver).

Your application might do both Sending of and listening for Intent
Objects.

For example, the Intentaction action_battery_low broadcasts a warning when the battery is low. It your application is a battery-hogging service of some kind, you might want to listen for this Broadcast and shutdown your Service until the battery power is sufficient.

3C) Draw the diagram of Activity life cycle States and explain them in detail.

Ans:On (reate(): - It is caused when the activity is first created. This is when an the static or work is done like creating view bending data to list etc.

I this method also provides a bundle containing it's previous State.

Onstart(): - When an Activity becomes invisible to the user. It is followed by on resume callback().

Ontesume ():- This is called When the user are interacting with application Onpause ():- This paused activity doesn't recieve any input and cannot execute any code. This is called When an activity is being paused and Previous activity is resumed.

Onstop()! - This callback is called when the activity is no longer visible ondestroy (): - This called by the system before the activity is destroyed.

Onrestart (): - This is called when the activity restarts after stopping it.

Activity lifecycle:-

