

HELLOWORLD

1.Develop an application that uses controls, size ,fonts and colors. (3 Buttons(RED,BLUE,GREEN) and a Text View with a Message)

```
package com.example.helloworld;

import androidx.appcompat.app.AppCompatActivity;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity implements View.OnClickListener {
    Button b1,b2,b3;
    TextView tv1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1=(Button) findViewById(R.id.btngreen);
        b2=(Button) findViewById(R.id.btnred);
        b3=(Button) findViewById(R.id.btnblue);
        tv1=(TextView) findViewById(R.id.txt1);
        b1.setOnClickListener(this);
        b2.setOnClickListener(this);
        b3.setOnClickListener(this);
    }
    public void onClick(View v)
    {
        switch (v.getId()){
            case R.id.btngreen:
                tv1.setTextColor(Color.GREEN);
                break;
            case R.id.btnred:
                tv1.setTextColor(Color.RED);
                break;
            case R.id.btnblue:
                tv1.setTextColor(Color.BLUE);
                break;
        }
    }
}
```

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
```

```
<TextView
    android:id="@+id/txt1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello World!"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
    android:id="@+id/btngreen"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Green"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.52"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.235" />
```

```
<Button
    android:id="@+id/btnred"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="RED"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
```

```

app:layout_constraintHorizontal_bias="0.52"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.326" />

```

<Button

```

    android:id="@+id/btnblue"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="BLUE"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.52"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.411" />

```

```

</androidx.constraintlayout.widget.ConstraintLayout>

```

OUTPUT

