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SECTION:5CSE-4

## EXPERIMENT-2.BMI APPLICATION

### 1.XML FILE

```
<?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"
android:background="@drawable/bg"
tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="BMI CALCULATOR"
        android:textColor="#9C27B0"
        android:textColorHint="#4CAF50"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.022" />

    <EditText
        android:id="@+id/ed2"
        android:layout_width="212dp"
        android:layout_height="45dp"
        android:ems="10"
        android:hint="Enter Height(in meters)"
        android:inputType="text"
        android:textColorHighlight="#00BCD4"
        android:textColorHint="#00BCD4"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.08"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.268" />

    <EditText
        android:id="@+id/ed1"
        android:layout_width="215dp"
        android:layout_height="46dp"
        android:ems="10"
        android:hint="Enter Weight(in kgs)"
        android:inputType="text"
        android:textColorHint="#00BCD4"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```

app:layout_constraintHorizontal_bias="0.081"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.145" />

<Button
    android:id="@+id/bt1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="CALCULATE"
    android:textColor="#00BCD4"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.056"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.39" />

<TextView
    android:id="@+id/tv"
    android:layout_width="163dp"
    android:layout_height="62dp"
    android:text="BMI"
    android:textColor="#9C27B0"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.104"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.512" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

## 2.JAVA FILE

```

package com.example.bmi;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    EditText h,w;
    Button b1;
    TextView tv;

    Double a,b,res;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        h = findViewById(R.id.ed1);
        w = findViewById(R.id.ed2);
        b1 = findViewById(R.id.bt1);
        tv = findViewById(R.id.tv);
    }
}

```

```

b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        a = Double.parseDouble(h.getText().toString());
        b = Double.parseDouble(w.getText().toString());
        res = a / b * b;
        if(res < 18.5)
            tv.setText("The BMI is: "+res+" \n Under Weight ");
        else if (res >= 18.5 && res < 24.9)
            tv.setText("The BMI is: "+res+" \n Healthy ");
        else if (res >= 24.9 && res < 30)
            tv.setText("The BMI is: "+res+" \n Over Weight ");
        else if (res>=30)
            tv.setText("The BMI is: "+res+" \n Suffering from
obesity ");
    }
});
}
}

```

### 3.OUTPUT

