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Course - BCA Sec A

Ques Create a Basic Calculator

Q

<Edit Text

```
android:id="@+id/et1"  
android:layout-width="match-parent"  
android:layout-height="wrap-content"  
android:inputType="number"  
android:minHeight="48dp"  
tools:ignore="SpeakableTextPresentCheck"/>
```

<Edit Text

```
android:id="@+id/et2"  
android:layout-width="match-parent"  
android:layout-height="wrap-content"  
android:layout-below="@+id/et1"  
android:layout-alignParentStart="true"  
android:inputType="number"  
android:minHeight="48dp"  
tools:ignore="SpeakableTextPresentCheck"/>
```

<TextView

```
android:id="@+id/tv1"  
android:layout-width="wrap-content"  
android:layout-height="wrap-content"  
android:layout-below="@+id/et2"  
android:layout-centerHorizontal="true"  
android:layout-marginTop="16dp"  
android:text="0"  
android:textColor="@android:color/black"  
android:textSize="50sp"/>
```



```
<Button  
    android:id="@+id/b1"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_centerHorizontal="true"  
    android:layout_centerVertical="true"  
    android:text="add"/>
```

```
<Button  
    android:id="@+id/b2"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_centerHorizontal="true"  
    android:layout_centerVertical="true"  
    android:text="sub"/>
```

```
<Button  
    android:id="@+id/b3"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_centerHorizontal="true"  
    android:layout_centerVertical="true"  
    android:text="mul"/>
```

```
<Button  
    android:id="@+id/b4"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_centerHorizontal="true"  
    android:layout_centerVertical="true"  
    android:text="div"/>
```

```
</LinearLayout>
```


Code on JAVA

```
public class MainActivity extends AppCompatActivity {  
    EditText ed1, ed2;  
    TextView txtv1;  
    Button btn1, btn2, btn3, btn4;
```

@Override

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);
```

```
    setContentView(R.layout.activity_main);
```

```
    ed1 = findViewById(R.id.et1);
```

```
    ed2 = findViewById(R.id.et2);
```

```
    txtv1 = findViewById(R.id.tv1);
```

```
    btn1 = findViewById(R.id.b1);
```

```
    btn2 = findViewById(R.id.b2);
```

```
    btn3 = " " " " " " (R.id.b3);
```

```
    btn4 = " " " " " " (R.id.b4);
```

```
    btn1.setOnClickListener(v -> {
```

```
        if (ed1.getText().toString().length() == 0)
```

```
            ed1.setText("0");
```

```
    }
```

```
    if (ed2.getText().toString().length() == 0) {
```

```
        ed2.setText("0");
```

```
    }
```

```
    int num1 = Integer.parseInt(ed1.getText().toString());
```

```
    int num2 = Integer.parseInt(ed2.getText().toString());
```

```
    int sum = num1 + num2;
```

```
    txtv1.setText(String.valueOf(sum)); }
```

```
    btn2.setOnClickListener(v -> {
```

```
        if (ed1.getText().toString().length() == 0) {
```

```
            ed1.setText("0");
```

```
        }
```



```
if (edt2.getText().toString().length() == 0) &
```

```
edt2.setText("0");  
}
```

```
int num1 = Integer.parseInt(edt1.getText().toString());
```

```
int num2 = Integer.parseInt(edt2.getText().toString());
```

```
int sub = num1 - num2;
```

```
txt1.setText(String.valueOf(sub));  
});
```

```
btn3.setOnClickListener(v -> &
```

```
if (edt1.getText().toString().length() == 0) &
```

```
edt1.setText("0");
```

```
}
```