<u>Problem Statement 1-</u> Write a program to create a simple Android app that takes input from the user and displays it on the screen.

Objective- To learn how to accept input from user and display it on the screen.

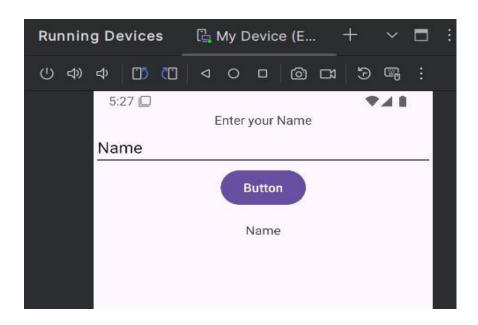
Source Code-

```
<?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:id="@+id/main"
  android:layout width="match parent"
android:layout_height="match_parent" tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView"
android:text="Enter your Name"
app:layout_constraintTop_toTopOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout constraintEnd toEndOf="parent" />
  <EditText
    android:id="@+id/editTextText"
android:layout width="0dp"
android:layout height="wrap content"
android:text="Name"
    app:layout constraintTop toBottomOf="@+id/textView"/>
  <Button
    android:id="@+id/button"
android:layout width="wrap content"
android:layout height="wrap content"
    android:text="Button"
    app:layout_constraintTop_toBottomOf="@+id/editTextText" />
<TextView
    android:id="@+id/textView2"
android:layout_width="wrap_content"
```

```
android:layout height="wrap content"
android:layout_marginTop="16dp"
    app:layout constraintTop toBottomOf="@+id/button"/>
</androidx.constraintlayout.widget.ConstraintLayout>
Java Code-
package com.example.userinput;
import android.os.Bundle; import
android.view.View; import
android.widget.Button; import
android.widget.EditText;
import android.widget.TextView;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets; import
androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  Button b;
  TextView t;
  EditText e;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main);
    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
      Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
      v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
      return insets;
    });
    b = findViewById(R.id.button);
e = findViewById(R.id.editTextText);
t = findViewById(R.id.textView2);
    b.setOnClickListener(new View.OnClickListener() {
```

@Override

```
public void onClick(View view) {
String str = e.getText().toString();
t.setText(str);
     }
});
});
```

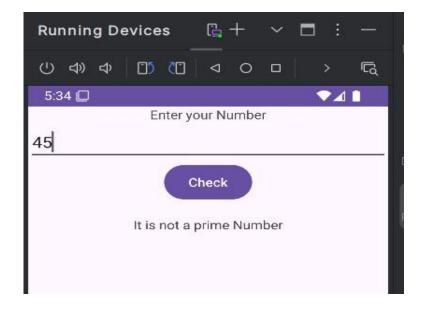


<u>Problem Statement 2-</u> Write a program to print on screen whether a number given by the user is prime or not.

Objective- To check whelter the number taken from user is a prime number or not.

```
<?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:id="@+id/main"
  android:layout_width="match_parent"
android:layout height="match parent" tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView"
android:text="Enter your Number"
    app:layout_constraintTop_toTopOf="parent"/>
  <EditText
    android:id="@+id/editTextText"
android:inputType="text"
    app:layout_constraintTop_toBottomOf="@+id/textView" />
  <Button
    android:id="@+id/button"
android:text="Check"
    app:layout constraintTop toBottomOf="@+id/editTextText" />
  <TextView
    android:id="@+id/textView2/"
android:layout_marginTop="16dp"
    android:text="TextView"
    app:layout_constraintTop_toBottomOf="@+id/button" />
</androidx.constraintlayout.widget.ConstraintLayout>
Java Code-
package com.example.prime_no;
import ...
public class MainActivity extends AppCompatActivity {
  Button b;
  TextView t;
```

```
EditText e;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
t=findViewById(R.id.textView2);
e=findViewById(R.id.editTextText);
                                       b=findViewById(R.id.button);
    b.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View view) {
                                                int
num=Integer.parseInt(e.getText().toString());
                                                      int
flag=0;
                String str;
         for (int i = 2; i \le num / 2; ++i) {
if (num % i == 0) {
                               flag=1;
break;
           }
         }
         if(flag==1){
           str="It is not a prime Number";
t.setText(str);
                       }
         else{
           str="It is a prime Number";
t.setText(str);
         }
      }
    });
  }
}
```



Problem Statement 3- Write a program to print the input given by the user in uppercase.

<u>**Objective-**</u> To convert the Lowercase String to Uppercase String.

XML Code-

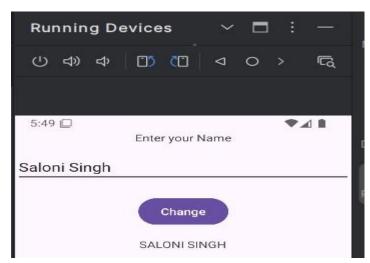
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/main"
                         android:layout_width="match_parent"
android:layout height="match parent"
  tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView"
android:text="Enter your Name"
    app:layout_constraintTop_toTopOf="parent" />
  <EditText
    android:id="@+id/editTextText"
android:text="Name"
    app:layout constraintTop toBottomOf="@+id/textView"/>
  <Button
    android:id="@+id/button"
android:text="Change"
    app:layout constraintTop toBottomOf="@+id/editTextText" />
  <TextView
    android:id="@+id/textView2"
android:text="TextView"
    app:layout_constraintTop_toBottomOf="@+id/button" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Java Code-

```
package com.example.uppercase; import .. public class MainActivity extends AppCompatActivity {
   Button b;
   TextView t;
   EditText e;

@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main);
    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
      Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
      v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
      return insets;
    });
    b=findViewById(R.id.button);
e=findViewById(R.id.editTextText);
t=findViewById(R.id.textView2);
                                    b.setOnClickListener(view->()
(
        String str=e.getText().toString().toUpperCase();
t.setText(str);
    });
 }}
```

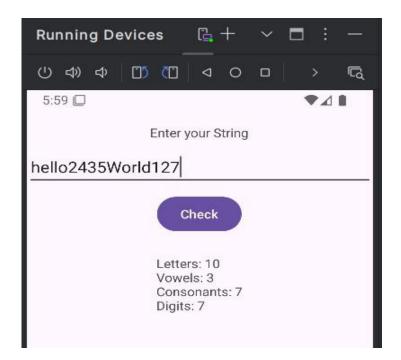


<u>Problem Statement 4-</u> Write a program to find the total number of vowels, consonants, and characters in a given string.

<u>Objective-</u> To take a string as input from the user and calculates the total number of vowels, consonants, and characters in the given string.

```
<?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:id="@+id/main"
android:layout_height="match_parent"
tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView"
android:text="Enter your String"
    app:layout_constraintTop_toTopOf="parent" />
  <EditText
    android:id="@+id/editTextText"
    app:layout_constraintTop_toBottomOf="@+id/textView" />
  <Button
    android:id="@+id/button"
android:text="Check"
    app:layout_constraintTop_toBottomOf="@+id/editTextText" />
  <TextView
    android:id="@+id/textView2"
    app:layout_constraintTop_toBottomOf="@+id/button" />
</androidx.constraintlayout.widget.ConstraintLayout>
Java Code-
package com.example.count;
import ...
public class MainActivity extends AppCompatActivity {
  TextView t;
  EditText e;
```

```
@Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main);
    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
      Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
      v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
      return insets;
    });
    t=findViewById(R.id.textView2);
e=findViewById(R.id.editTextText);
    findViewById(R.id.button).setOnClickListener(v -> {
String input = e.getText().toString();
      int vowels = 0, consonants = 0, digits = 0, letter = 0;
for (char c : input.toCharArray()) {
                                           if
(!Character.isDigit(c)) {
           if ("aeiou".indexOf(c) != -1 || "AEIOU".indexOf(c) != -1) {
vowels++;
                      } else {
             consonants++;
           letter++;
} else {
digits++;
         }
      }
      String result = "Letters: " + letter +"\nVowels: " + vowels +"\nConsonants: " + consonants+
           "\nDigits: " + digits;
t.setText(result);
    });
}
}
```



Problem Statement

______5- Write a program to change the background color of a TextView in an Android app.

Objective- To learn the use of setBackgroundColor() method.

Source Code-

XML Code-

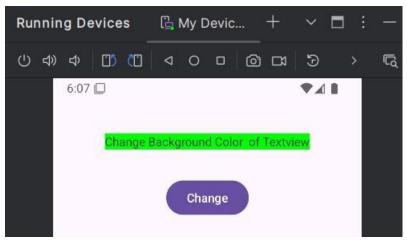
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/main"
                         android:layout width="match parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="40dp"
    android:text="Change Background Color of Textview"
app:layout constraintEnd toEndOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
  <Button
    android:id="@+id/button"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout marginTop="32dp"
    android:text="Change"
    app:layout constraintEnd toEndOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout constraintTop toBottomOf="@+id/textView"/>
```

</androidx.constraintlayout.widget.ConstraintLayout>

Java Code-

package com.example.a5;

```
import ..
public class MainActivity extends AppCompatActivity {
  Button b;
  TextView t;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main);
    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
      Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
      v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
      return insets;
    });
    b=findViewById(R.id.button);
t=findViewById(R.id.textView);
    b.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        t.setBackgroundColor(Color.GREEN);
      }
    });
 }}
```



__6- Write a program to Set Background Image in Android.

Problem Statement

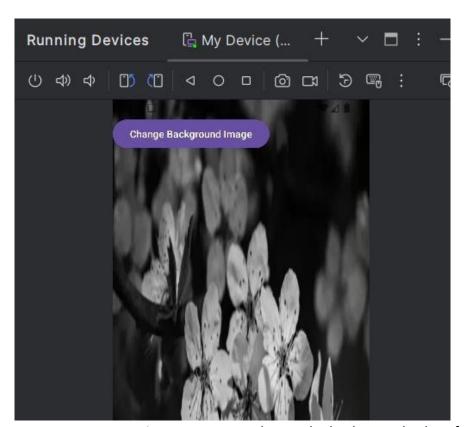
Objective- To learn the implementation of setBackgroundResource() method.

Source Code-

```
XML Code-
```

```
<?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:id="@+id/main"
                          android:layout width="match parent"
android:layout height="match parent"
 tools:context=".MainActivity">
  <Button
    android:id="@+id/button"
android:layout width="wrap content"
android:layout height="wrap content"
                                          android:text="Change
Background Image"
app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
Java Code-
package com.example.a6;
import ..
public class MainActivity extends AppCompatActivity {
  ConstraintLayout c;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main);
ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
      Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
      v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
      return insets;
    });
```

```
c=findViewById(R.id.main);
findViewById(R.id.button).setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        c.setBackgroundResource(R.drawable.img);
    }
});
```



_7- Write a program to change the background color of a Component view

in

an Android app.

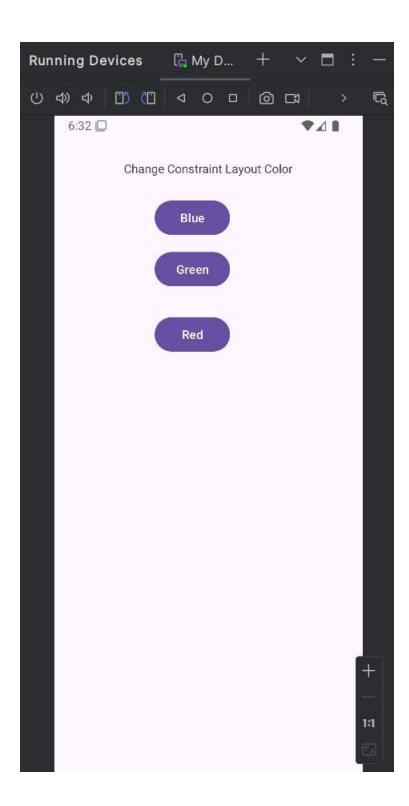
Objective- To learn the implementation of setBackgroundColor() method in Component view.

Problem Statement Source Code-

Button b1,b2,b3;

```
<?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:id="@+id/main"
  android:layout_width="match_parent"
android:layout_height="match_parent" tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView"
android:text="Change Constraint Layout Color"
app:layout_constraintTop_toTopOf="parent" />
  <Button
    android:id="@+id/button"
android:text="Blue"
    app:layout constraintTop toBottomOf="@+id/textView"/>
  <Button
    android:id="@+id/button2"
android:text="Green"
    app:layout constraintTop toBottomOf="@+id/button"/>
  <Button
    android:id="@+id/button3"
android:text="Red"
    app:layout_constraintTop_toBottomOf="@+id/button2" />
</androidx.constraintlayout.widget.ConstraintLayout>
Java Code-
package com.example.layoutcolour;
import ..
public class MainActivity extends AppCompatActivity {
  ConstraintLayout c;
```

```
@Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main);
    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
      Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
      v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
      return insets;
    });
    b1=findViewById(R.id.button);
b2=findViewById(R.id.button2);
b3=findViewById(R.id.button3);
c=findViewById(R.id.main);
    b1.setOnClickListener(view -> {
      c.setBackgroundColor(Color.BLUE);
    });
    b2.setOnClickListener(view -> {
      c.setBackgroundColor(Color.GREEN);
    });
    b3.setOnClickListener(view -> {
      c.setBackgroundColor(Color.RED);
    });
 }}
```



Problem Statement 8 - Write a program to change the text color of a textview in an Android app.

Objective- To learn the implementation of setTextColor() method in a TextView.

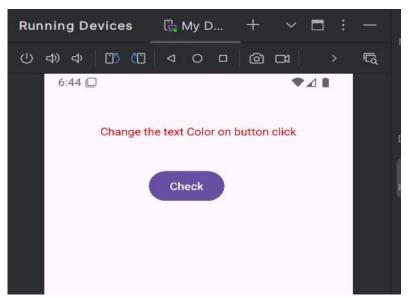
Source Code-

```
XML Code-
```

import ...

```
<?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:id="@+id/main"
  android:layout_width="match_parent"
android:layout_height="match_parent"
 tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView"
android:layout width="wrap content"
android:layout_height="wrap_content"
android:layout_marginTop="44dp"
    android:text="Change the text Color on button click"
app:layout constraintEnd toEndOf="parent"
                                               app:layout constraintHorizontal bias="0.497"
app:layout constraintStart toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
  <Button
    android:id="@+id/button"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout marginTop="40dp"
    android:text="Check"
    app:layout constraintEnd toEndOf="parent"
app:layout constraintHorizontal bias="0.448"
app:layout_constraintStart_toStartOf="parent"
app:layout constraintTop toBottomOf="@+id/textView"/>
</androidx.constraintlayout.widget.ConstraintLayout>
Java Code-
package com.example.textviewcolor;
```

```
public class MainActivity extends AppCompatActivity {
  TextView t;
  Button b;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
    setContentView(R.layout.activity main);
    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
      Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
      v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
      return insets;
    });
    t=findViewById(R.id.textView);
b=findViewById(R.id.button);
    b.setOnClickListener(view -> {
      t.setTextColor(Color.RED);
    });
 }}
```



<u>Problem Statement 9-</u> Write a program to create a basic calculator in order to perform basic 4 arithmetic operations i.e addition, division, multiplication & subtraction.

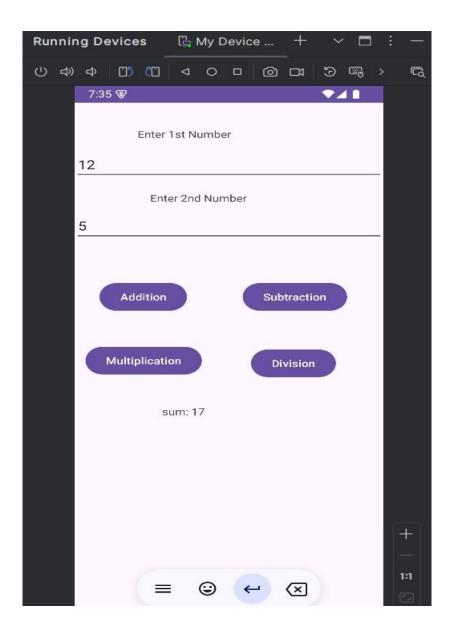
<u>Objective-</u> To create a basic calculator to perform addition ,subtraction ,multiplication ,division.

```
<?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:id="@+id/main"
                         android:layout_width="match_parent"
android:layout height="match parent"
tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView"
android:layout marginTop="36dp"
                                    android:text="Enter
1st Number"
    app:layout_constraintTop_toTopOf="parent" />
  <EditText
    android:id="@+id/editTextText"
    app:layout constraintTop toBottomOf="@+id/textView"/>
  <TextView
    android:id="@+id/textView2"
android:text="Enter 2nd Number"
    app:layout_constraintTop_toBottomOf="@+id/editTextText" />
  <EditText
    android:id="@+id/editTextText2"
    app:layout_constraintTop_toBottomOf="@+id/textView2" />
  <Button
    android:id="@+id/button"
android:text="Addition"
    app:layout_constraintTop_toBottomOf="@+id/editTextText2" />
  <Button
    android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:layout marginTop="56dp"
                                     android:text="Subtraction"
app:layout constraintEnd toEndOf="parent"
app:layout constraintHorizontal bias="0.823"
app:layout_constraintStart_toStartOf="parent"
```

```
app:layout constraintTop toBottomOf="@+id/editTextText2" />
  <Button
    android:id="@+id/button3"
android:text="Multiplication"
    app:layout_constraintTop_toBottomOf="@+id/button" />
  <Button
    android:id="@+id/button4"
android:text="Division"
    app:layout_constraintTop_toBottomOf="@+id/button2" />
  <TextView
    android:id="@+id/textView3"
android:text="Result"
    app:layout_constraintTop_toBottomOf="@+id/button4" />
</androidx.constraintlayout.widget.ConstraintLayout>
Java Code-
package com.example.a9;
import ...
public class MainActivity extends AppCompatActivity {
  Button b1,b2,b3,b4;
  EditText e1,e2;
  TextView t;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
                                        setContentView(R.layout.activity main);
super.onCreate(savedInstanceState);
b1=findViewById(R.id.button);
                                  b2=findViewById(R.id.button2);
b3=findViewById(R.id.button3);
                                   b4=findViewById(R.id.button4);
e1=findViewById(R.id.editTextText);
                                       e2=findViewById(R.id.editTextText2);
t=findViewById(R.id.textView3);
                                   b1.setOnClickListener(view -> {
      int num = Integer.parseInt(e1.getText().toString());
int num1 = Integer.parseInt(e2.getText().toString());
t.setText("sum: "+String.valueOf(num+num1));
    });
    b2.setOnClickListener(view -> {
```

```
int num = Integer.parseInt(e1.getText().toString());
int num1 = Integer.parseInt(e2.getText().toString());
      t.setText("Difference: "+String.valueOf(num-num1));
    });
    b3.setOnClickListener(view -> {
      int num = Integer.parseInt(e1.getText().toString());
int num1 = Integer.parseInt(e2.getText().toString());
      t.setText("Multiplication: "+String.valueOf(num*num1));
    });
    b4.setOnClickListener(view -> {
      int num = Integer.parseInt(e1.getText().toString());
int num1 = Integer.parseInt(e2.getText().toString());
                                                            if
(num1!=0){
         t.setText("Division: "+String.valueOf(num/num1));
      } else {
         String str="Not divisible by Zero";
t.setText(str);
      }
    });
  }}
<u>Out</u>
```

<u>put-</u>



Problem Statement 10- Write a program to perform simple validation on name and age.

<u>Objective-</u> To learn about the implementation of setError() method and use of expression(^[A-Zaz_]+\$).

```
<?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:id="@+id/main"
  android:layout_width="match_parent"
android:layout height="match parent" tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView""
android:text="Enter your Name"
    app:layout_constraintTop_toTopOf="parent" />
  <EditText
    android:id="@+id/editTextText"
    app:layout_constraintTop_toBottomOf="@+id/textView"/>
  <TextView
    android:id="@+id/textView2"
android:text="Enter your Age"
    app:layout_constraintTop_toBottomOf="@+id/editTextText" />
  <EditText
    android:id="@+id/editTextText2"
    app:layout_constraintTop_toBottomOf="@+id/textView2" />
  <Button
    android:id="@+id/button"
android:text="Validate"
    app:layout_constraintTop_toBottomOf="@+id/editTextText2" />
<TextView
    android:id="@+id/textView3"
android:text="TextView"
    app:layout_constraintTop_toBottomOf="@+id/button" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Java Code-

```
package com.example.validation;
import ...
public class MainActivity extends AppCompatActivity {
  EditText e1,e2;
  Button b;
  TextView t;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main);
    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
      Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
      v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
      return insets;
    });
    t=findViewById(R.id.textView3);
e1=findViewById(R.id.editTextText);
e2=findViewById(R.id.editTextText2);
                                         b=findViewById(R.id.button);
    b.setOnClickListener(view -> {
String name=e1.getText().toString();
String age=e2.getText().toString();
if(name.isEmpty()){
        e1.setError("Field should not be empty");
      else if(age.isEmpty()){
        e2.setError("Field should not be empty");
      }
      else if(!age.isEmpty()){
int num=Integer.parseInt(age);
if(num<1||num>100){
          e2.setError("Invalid age");
        }
      }
                                        if(!name.matches("^[A-
      else if(!name.isEmpty()){
Za-z_]+$")){
          e1.setError("Invalid name");
        }
      }
```

```
String s = "Validation Successful";
t.setText(s);
});
}}
```

