Assignment 1 & 2

Set A

Q1.Create a simple application which shows Lifecycle of Activity.
JAVA:-
MainActivity.java

```
package com.example.activitylifecycle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.util.Log;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Log.d("Activity Lifecycle", "onCreate method started");
    }

    @Override
    protected void onStart() {
        super.onStart();
        Log.d("Activity Lifecycle", "onStart method started");
    }

    @Override
    protected void onResume() {
        super.onResume();
        Log.d("Activity Lifecycle", "onResume method started");
    }

    @Override
    protected void onPause() {
        super.onPause();
        Log.d("Activity Lifecycle", "onPause method started");
    }

    @Override
    protected void onStop() {
        super.onStop();
        Log.d("Activity Lifecycle","onStop method started");
    }

    @Override
    protected void onRestart() {
        super.onRestart();
```

```
        Log.d("Activity Lifecycle","onRestart method started");
    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
        Log.d("Activity Lifecycle","onDestroy method started");
    }
}
```

XML:-

```
<?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:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Q2.Create a simple application which sends Hello message from one activity to another activity with help of button.(Use Intent).

JAVA:-

```
<?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">

    <EditText
        android:id="@+id/editTextText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="text"
        tools:layout_editor_absoluteX="82dp"
        tools:layout_editor_absoluteY="32dp" />
```

```
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="180dp"
        android:text="Click"
        app:layout_constraintEnd_toEndOf="parent"
        tools:layout_editor_absoluteY="173dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA:-

```
package com.example.twoactivity;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    EditText send;
    Button b1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        send=findViewById(R.id.editTextText);
        b1=findViewById(R.id.button);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String str=send.getText().toString();
                Intent intent=new Intent(MainActivity.this,Activitysecond.class);
                intent.putExtra("msg",str);
                startActivity(intent);
            }
        });
    }
}
```

SecondXML:-

```
<?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=".Activitysecond">
```

```
    <TextView
        android:id="@+id/textView"
        android:layout_width="245dp"
        android:layout_height="0dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0"
        tools:layout_editor_absoluteX="83dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Second JAVA:-

```
package com.example.twoactivity;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class Activitysecond extends AppCompatActivity {
    TextView receive;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_activitysecond);
        receive=findViewById(R.id.textView);
        Intent intent=getIntent();
        String str=intent.getStringExtra("msg");
        receive.setText(str);
    }
}
```

Q3.Create a Simple application that performs Arithmetic operation and display result on second Activity.

JAVA:-

```
 import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.view.View
import kotlinx.android.synthetic.main.activity_main.*

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
    }

    fun calculate(view: View) {
        val num1 = editTextNumber1.text.toString().toInt()
        val num2 = editTextNumber2.text.toString().toInt()
        val operator = spinner.selectedItem.toString()
```

```
        val result = when (operator) {
            "+" -> num1 + num2
            "-" -> num1 - num2
            "*" -> num1 * num2
            "/" -> num1 / num2
            else -> 0 // Handle unsupported operations
        }

        val intent = Intent(this, ResultActivity::class.java)
        intent.putExtra("RESULT", result)
        startActivity(intent)
    }
```

XML:-

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

    <EditText
        android:id="@+id/editTextNumber1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:hint="Enter Number 1"
        android:inputType="number"/>

    <EditText
        android:id="@+id/editTextNumber2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/editTextNumber1"
        android:layout_centerHorizontal="true"
        android:hint="Enter Number 2"
        android:inputType="number"/>

    <Spinner
        android:id="@+id/spinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/editTextNumber2"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:entries="@array/operators" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/spinner"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:text="Calculate"
```

```
        android:onClick="calculate"/>

</RelativeLayout>}
```

JAVA:-

```
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import kotlinx.android.synthetic.main.activity_result.*

class ResultActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_result)

        val result = intent.getIntExtra("RESULT", 0)
        textViewResult.text = "Result: $result"
    }
}
```

XML:-

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ResultActivity">

    <TextView
        android:id="@+id/textViewResult"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:textSize="24sp"
        android:textStyle="bold"/>

</RelativeLayout>
```

Q4.Create a Simple application that shows factorial of a number and display on second Activity.

XML:-

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    tools:context=".MainActivity" >

    <EditText
        android:id="@+id/text1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="text" />
```

```
    <Button
        android:id="@+id/button"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Go" />
</LinearLayout>
```

JAVA:-

```
package com.example.fact;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    EditText t1;
    Button b;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        t1=findViewById(R.id.text1);
        b=findViewById(R.id.button);
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                int a=Integer.parseInt(t1.getText().toString());
                int i,fact=1;
                for(i=1;i<=a;i++){
                    fact=fact*i;
                }
                Intent intent=new Intent(MainActivity.this, second.class);
                intent.putExtra("Number",fact);
                startActivity(intent);
            }
        });
    }
}
```

SecondXML:-

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    tools:context=".second">

    <TextView
```

```
    android:id="@+id/textView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" />
</LinearLayout>
```

Second JAVA:-

```
package com.example.fact;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class second extends AppCompatActivity {
   TextView r;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_second);
      r=findViewById(R.id.textView);
      Intent intent=getIntent();
      Bundle b=intent.getExtras();
      int a=b.getInt("Number");
      r.setText("Factorial is:="+a);
   }
}
```

Q5.Create a Simple application that accepts two number and calculate power and average of a number and display on second Activity.

XML:-

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
   tools:context=".second">

   <TextView
      android:id="@+id/textView1"
      android:layout_width="match_parent"
      android:layout_height="wrap_content" />

   <TextView
      android:id="@+id/textView2"
      android:layout_width="match_parent"
      android:layout_height="wrap_content" />
</LinearLayout>
```

JAVA:-

```
package com.example.powerandaverage;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
   EditText n1,n2;
   Button b;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_main);
      n1=findViewById(R.id.text1);
      n2=findViewById(R.id.text2);
      b=findViewById(R.id.button);
      b.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View v) {
            int a,b,i,pow=1;
            a=Integer.parseInt(n1.getText().toString());
            b=Integer.parseInt(n2.getText().toString());
            for(i=1;i<=b;i++){
               pow=pow*a;
            }
            int c,d,avg;
            c=Integer.parseInt(n1.getText().toString());
            d=Integer.parseInt(n2.getText().toString());
            avg=(c+d)/2;
            Intent intent=new Intent(MainActivity.this, second.class);
            intent.putExtra("power",pow);
            intent.putExtra("average",avg);
            startActivity(intent);
         }
      });
   }
}
```

SecondXML:-

```
package com.example.powerandaverage;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
```

```
    EditText n1,n2;
    Button b;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        n1=findViewById(R.id.text1);
        n2=findViewById(R.id.text2);
        b=findViewById(R.id.button);
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                int a,b,i,pow=1;
                a=Integer.parseInt(n1.getText().toString());
                b=Integer.parseInt(n2.getText().toString());
                for(i=1;i<=b;i++){
                    pow=pow*a;
                }
                int c,d,avg;
                c=Integer.parseInt(n1.getText().toString());
                d=Integer.parseInt(n2.getText().toString());
                avg=(c+d)/2;
                Intent intent=new Intent(MainActivity.this, second.class);
                intent.putExtra("power",pow);
                intent.putExtra("average",avg);
                startActivity(intent);
            }
        });
    }
}
```

Second JAVA:-

```
package com.example.powerandaverage;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class second extends AppCompatActivity {
    TextView t1,t2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        t1=findViewById(R.id.textView1);
        t2=findViewById(R.id.textView2);
        Intent intent=getIntent();
        Bundle b=intent.getExtras();
        int power=b.getInt("power");
        t1.setText("Power is:"+power);
        int average=b.getInt("average");
        t2.setText("Average is:"+average);
```

```
    }
}
```

Q6.Create simple application to show number is even or odd in the same activity display result.

XML:-

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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" >

    <EditText
        android:id="@+id/text1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="107dp"
        android:layout_marginBottom="564dp"
        android:ems="10"
        android:inputType="text" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="171dp"
        android:layout_marginBottom="463dp"
        android:text="Button" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="171dp"
        android:layout_marginBottom="371dp" />
</RelativeLayout>
```

JAVA:-

```
package com.example.evenodd;

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 n1;
    Button b;
    TextView t1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        n1=findViewById(R.id.text1);
        b=findViewById(R.id.button);
        t1=findViewById(R.id.textView);
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                int a=Integer.parseInt(n1.getText().toString());
                if(a%2==0){
                    t1.setText("Even number");
                }else {
                    t1.setText("Odd number");
                }
            }
        });
    }
}
```

Q7.Create a simple Android application to accept username and password from the user. On successful login display"Login Successful" on another activity.Else show "Login Failed" on same activity using Toast.

XML:-

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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" >

    <EditText
        android:id="@+id/text1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="102dp"
        android:layout_marginBottom="499dp"
        android:ems="10"
        android:inputType="text" />

    <EditText
        android:id="@+id/password"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
```

```
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="103dp"
        android:layout_marginBottom="411dp"
        android:ems="10"
        android:inputType="textPassword" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="153dp"
        android:layout_marginBottom="309dp"
        android:text="submit" />
</RelativeLayout>
```

JAVA:-

```
package com.example.login;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    EditText user,pass;
    Button b;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        user=findViewById(R.id.text1);
        pass=findViewById(R.id.password);
        b=findViewById(R.id.button);
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(user.getText().toString().equals("Sana") && pass.getText().toString().equals("Sana")){
                    Intent intent=new Intent(MainActivity.this, second.class);
                    startActivity(intent);
                }else{
                    Toast.makeText(MainActivity.this,"Login Failed",Toast.LENGTH_LONG).show();
                }
            }
        });
    }
}
```

SecondXML:-

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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=".second">

</RelativeLayout>
```

Second JAVA:-

```
package com.example.login;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.Toast;

public class second extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        Toast.makeText(second.this,"Login successfull",Toast.LENGTH_LONG).show();
    }
}
```

Q8)Create a simple application that accept number from user that find square of number and display result using Toast.(use constraint layout).

XML:-

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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" >

    <EditText
        android:id="@+id/text1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="89dp"
        android:layout_marginBottom="470dp"
        android:ems="10"
        android:inputType="text" />

    <Button
        android:id="@+id/button"
```

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="158dp"
        android:layout_marginBottom="304dp"
        android:text="Button" />
</RelativeLayout>
```

JAVA:-

```
package com.example.square;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {
    EditText n1;
    Button b;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        n1 = findViewById(R.id.text1);
        b = findViewById(R.id.button);

        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                int a = Integer.parseInt(n1.getText().toString());
                int square = a * a;
                Toast.makeText(MainActivity.this, "The square of number is:" + square,
Toast.LENGTH_LONG).show();
            }
        });
    }
}
```

Q9)Create a simple application that will change the colour of college name on click of push Button and change the font size ,font style of text view using XML.

XML:-

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    tools:context=".MainActivity">
```

```
    <EditText
        android:id="@+id/text1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="text" />

    <Button
        android:id="@+id/bn1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="blue" />

    <Button
        android:id="@+id/bn2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="green" />

    <Button
        android:id="@+id/bn3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="sans serif" />

    <Button
        android:id="@+id/bn4"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="serif" />

    <Button
        android:id="@+id/bn5"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="size 10" />

    <Button
        android:id="@+id/bn6"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="size 15" />

    <Button
        android:id="@+id/bn7"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="size 20" />
</LinearLayout>
```

JAVA:-

```
package com.example.style;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.Color;
import android.graphics.Typeface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    EditText t;
    Button b1,b2,b3,b4,b5,b6,b7;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        t=findViewById(R.id.text1);
        b1=findViewById(R.id.bn1);
        b2=findViewById(R.id.bn2);
        b3=findViewById(R.id.bn3);
        b4=findViewById(R.id.bn4);
        b5=findViewById(R.id.bn5);
        b6=findViewById(R.id.bn6);
        b7=findViewById(R.id.bn7);

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                t.setTextColor(Color.BLUE);
            }
        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                t.setTextColor(Color.GREEN);
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                t.setTypeface(Typeface.SANS_SERIF);
            }
        });
        b4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                t.setTypeface(Typeface.SERIF);
            }
        });
        b5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
```

```
            t.setTextSize(10);
        }
    });
    b6.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            t.setTextSize(15);
        }
    });
    b7.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            t.setTextSize(20);
        }
    });
  }
}
```